

PUBLIC VERSION

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

Redacted information is CEII	3/25/19-3/31/19	Redacted information is CEII	>18,000 MW	0	0				CO 0.0 NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	4/1/19-4/7/19	Redacted information is CEII	>18,100 MW	0	0				NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
Redacted information is CEII	4/8/19-4/14/19	Redacted information is CEII	>18,100 MW	0	0				NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
			Total Estimate	557	89				NOx 1201.80 SO2 4613.72 PM10 260.16 CO2 605,128.80 Pb 0.0493 Hg 0.0075 HCl 108.82 HF 17.62 CO 58.75

*Outages scheduled to complete 5/12/2019.

** Estimates are for both Yorktown 1 & 2 units.

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Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

		07-2017	08-2017	09-2017	10-2017	11-2017	12-2017	01-2018	02-2018	03-2018	04-2018	05-2018	06-2018	07-2018	08-2018	09-2018	10-2018	11-2018	12-2018
Days over load threshold **		9	9	0	0	0	1	6	3	0	1	11	15	8	9	13	4	0	0
Hours over Load Threshold*		39	48	0	0	0	3	18	9	0	2	95	124	43	45	105	26	0	0
Dominion Emission Estimates (tons)	NOx	57.89	5.0	0.0	0.0	0.0	13.50	81.02	40.51	0.0	13.50	148.54	202.55	108.03	121.53	175.54	54.01	0.0	0.0
	SO2	391.87	20.8	0.0	0.0	0.0	51.84	311.04	155.51	0.0	51.84	570.23	777.59	414.72	466.56	673.91	207.36	0.0	0.0
	PM10	3.72	1.53	0.0	0.0	0.0	2.92	17.54	8.77	0.0	2.92	32.15	43.85	23.39	26.31	38.00	11.69	0.0	0.0
	CO2	36,173.3	2741.4	-	-	-	6,799.2	40,795.2	20,397.6	-	6,799.2	74,791.2	101,988	54,393.6	61,197.8	88,389.6	27,196.8	-	0.0
	Pb	0.0040	0.00561	0.0	0.0	0.0	0.0006	0.0033	0.0017	0.0	0.0006	0.0061	0.0083	0.0044	0.0050	0.0072	0.0022	0.0	0.0
	Hg	0.0008	0.00004	0.0	0.0	0.0	0.0001	0.0005	0.0003	0.0	0.0001	0.0009	0.0013	0.0007	0.0008	0.0011	0.0003	0.0	0.0
	HCl	11.48	0.6387	0.0	0.0	0.0	1.22	7.34	3.67	0.0	1.22	13.45	18.34	9.78	11.00	15.89	4.89	0.0	0.0
	HF	1.43	0.07984	0.0	0.0	0.0	0.20	1.19	0.59	0.0	0.20	2.18	2.97	1.58	1.78	2.57	0.79	0.0	0.0
	CO	4.78	0.26614	0.0	0.0	0.0	0.66	3.96	1.98	0.0	0.66	7.26	9.90	5.28	5.94	8.58	2.64	0.0	0.0

		01-2019	02-2019	03-2019	04-2019	05-2019
Days over load threshold **		0	0	0	0	0
Hours over Load Threshold **		0	0	0	0	0
Dominion Emission Estimates (tons)	NOx	0.0	0.0	0.0	0.0	0.0
	SO2	0.0	0.0	0.0	0.0	0.0
	PM10	0.0	0.0	0.0	0.0	0.0
	CO2	-	-	-	-	-
	Pb	0.0	0.0	0.0	0.0	0.0

PUBLIC VERSION

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

Hg	0.0	0.0	0.0	0.0	0.0	0.0
HCl	0.0	0.0	0.0	0.0	0.0	0.0
HF	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0

Figures highlighted in green are actual emission data for the month

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October 12, 2017

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

**Re: Report on Yorktown Units 1 and 2 Revised Construction Schedule –
Order No. 202-17-4**

Dear Secretary Perry:

Pursuant to Order No. 202-17-4 (the “Renewal Order”) issued on September 14, 2017, by the Secretary of Energy (“Secretary”), PJM Interconnection, L.L.C. (“PJM”) and Virginia Electric and Power Company (“Dominion Energy Virginia”) respectfully submit the attached Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (“Outage Schedule”). This submission is in accordance with the Secretary’s directive that PJM and Dominion Energy Virginia provide an updated outage schedule and associated Yorktown Units 1 and 2 emission estimates in the event the schedule or emission estimates change from those presented in the PJM Renewal Application Filing dated August 24, 2017 (“Renewal Application”).¹

Previously, on June 16, 2017 the Secretary issued Order No. 202-17-2 directing the operation of Yorktown Units 1 and/or 2 only as needed to ensure reliability for a 90 day period, subject to a dispatch methodology submitted to the Department of Energy (“DOE”) for review

¹ Renewal Order at 2. The Renewal Order directs that every two weeks PJM and Dominion shall report the dates and associated emissions that the Yorktown Units 1 and/or 2 are operated, but does not specify the time to report changes to the Outage Schedule and estimated associated emissions. Nevertheless, this report is filed at the end of the second two week period after the Renewal Order was issued.

(“Order”).² PJM filed for an extension of the Order on August 24 asserting that there is a continuing emergency in the North Hampton Roads area of the Virginia Peninsula and asked DOE to renew the Order for an additional 90 days.

In the Renewal Application, PJM explained that construction of the Skiffes Creek Transmission Project began in July 10 2017 and is expected to take approximately 18-20 months.³ The Renewal Application provided the then current Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of August 18, 2017. The schedule included a construction schedule and planned transmission outage sequence, and Yorktown run and emission estimates. The schedule also provided actual emissions from the July 11-25 Yorktown unit runs, and the current estimated planned transmission outage time frames, transmission limiting contingencies, Dominion Zone load thresholds which trigger the need to operate Yorktown Units 1 and/or 2, estimated run time in days, and Dominion Energy Virginia’s estimated emissions for the remainder of the Order period based on the run time estimates. The Renewal Application explained that “the construction schedule will likely change...” and PJM and Dominion Energy Virginia would provide DOE with revised construction schedules and estimated emissions with each renewal application under the Order.⁴

In the Renewal Order, the DOE determined that an emergency exists due to the shortage of electric energy and the shortage of facilities for the generation and transmission of electric energy.⁵ The DOE also determined an emergency exists due to the imminent possibility of implementing the North Hampton Remedial Action Scheme (“RAS”) under a range of both steady-state and contingency events, including potential transmission congestion preventing the delivery of available generation to the North Hampton Roads area.⁶ For these reasons, the Secretary found that an emergency exists threatening imminent electric energy shortages, and that the Renewal Order is

² Order at 2.

³ Renewal Application at 3.

⁴ Renewal Application at 4.

⁵ Renewal Order at 1.

⁶ Summary of Findings DOE Order No. 202-17-4 at 7.

necessary to address the emergency and serve the public interest in the North Hampton Roads area.⁷ The Renewal Order also directed PJM and Dominion Energy Virginia to provide an updated outage schedule and associated Yorktown Units 1 and 2 emission estimates in the event the outage schedule or emission estimates change from those presented in the PJM Renewal Application.⁸

The attached Outage Schedule includes a revised construction schedule and planned transmission outage sequence, and Yorktown run and emission estimates. The Outage Schedule also provides actual emissions from the July 11-25 and August 21-23 Yorktown unit runs, and the current estimated planned transmission outage time frames, transmission limiting contingencies, Dominion Zone load thresholds which trigger the need to operate Yorktown Units 1 and/or 2, estimated run time in days, and Dominion Energy Virginia's estimated emissions for the remainder of the schedule based on the run time estimates.

The planned transmission outages are coordinated between PJM and Dominion Energy Virginia to ensure the reliability of service in the area and to support the Skiffes Creek construction schedule. Dominion Energy Virginia management in consultation with PJM revised the construction schedule after further review and meetings with its contractors regarding the Time of Year ("TOY") restrictions imposed by the Virginia Marine Resources Commission ("VMRC") and the U.S. Army Corps of Engineers ("Corps"). The TOY restrictions are imposed to minimize impacts of the installation of transmission tower foundations on anadromous fish species. The TOY restrictions limit the dates Dominion Energy Virginia can install foundations for the transmission towers to be located in the James River. VMRC prohibits the installation of foundations in the shallow waters of the James River between February 15 to June 15 of any given year, and the Corps prohibits the installation of foundations in the deep waters of the James River between February 15 and November 15 of any given year. Collectively, VMRC and Corps TOY restrictions prevent the installation of foundations in a continuous fashion, and finished foundations are needed to erect structures and start

⁷ Renewal Order at 1.

⁸ Renewal Order at 2.

pulling transmission wires. As a result of the TOY restrictions, the plan for the Skiffes Creek Project is extended by approximately five and one-half months, from December 30, 2018 to May 12, 2019.

The construction schedule will likely change again. PJM and Dominion Energy Virginia will provide an updated outage schedule and associated Yorktown Units 1 and 2 emission estimates in the event the outage schedule or emission estimates change further as directed by the Renewal Order.

REQUEST FOR CEII DESIGNATION

The filing consists of the following:

1. Non Public version of Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (password protected containing Critical Energy Infrastructure (“CEII”) material); and
2. Public version of Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (public version with CEII material redacted).

In regard to the Non Public version, PJM respectfully requests the information submitted to the DOE be designated as CEII pursuant Federal Power Act (“FPA”) Section 215A(d) and the implementing regulations, 18 C.F.R. Section 388.113.

In Fixing America's Surface Transportation Act (“FAST”) Section 215A(a)(3), CEII is specifically defined as information “designated as critical electric infrastructure information by ... the Secretary of the Department of Energy pursuant to subsection (d).”⁹ Under FPA Section 215A(a)(3), CEII includes information that is submitted to the DOE, and designated as such by DOE.¹⁰ The regulations define CEII in pertinent part as follows:

“1) Critical electric infrastructure information means information related to critical electric infrastructure ... Provided to the Commission or other Federal agency ... that is designated as critical electric infrastructure information by the Commission or the Secretary of the

⁹ FAST Act, Pub. L. No. 114-94, section 61,003, 129 Stat. 1312, 1776.

¹⁰ FAST Act, Pub. L. No. 114-94, section 61,003, 129 Stat. 1312, 1773 (“critical electric infrastructure information means information ... generated by or provided to the Commission or other Federal agency ... that is designated as critical electric infrastructure information by the Commission or the Secretary pursuant to subsection (d)”).

Department of Energy pursuant to section 215A(d) of the Federal Power Act. Such term includes information that qualifies as critical energy infrastructure information under the Commission's regulations. Critical Electric Infrastructure Information is exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552(b)(3) and shall not be made available by any Federal, State, political subdivision or tribal authority pursuant to any Federal, State, political subdivision or tribal law requiring public disclosure of information or records pursuant to section 215A(d)(1)(A) and (B) of the Federal Power Act."

2) *Critical energy infrastructure information* means specific engineering, vulnerability, or detailed design information about ... existing critical infrastructure that:

- (i) Relates details about the production, generation, transportation, transmission, or distribution of energy;
- (ii) Could be useful to a person in planning an attack on critical infrastructure;
- (iii) Is exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552; and
- (iv) Does not simply give the general location of the critical infrastructure."¹¹

PJM and Dominion Energy Virginia submits the redacted information is CEII because it provides details about the production, generation and transportation of energy, which if publically available could be useful in planning an attack on critical infrastructure in the North Hampton Road area of the Commonwealth of Virginia, namely the electric transmission system.

Respectfully submitted,

Steven R. Pincus
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Craig Glazer
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¹¹ 18 C.F.R. Section 388.113(c)(1) and (2).

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cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Katherine Konieczny, U.S. Department of Energy
Sanjay Narayan, Sierra Club Environmental Law Program (Public Version of Outage Schedule)

From: Michael Regulinski
To: Batra, Rakesh
Subject: FW: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Date: Thursday, December 07, 2017 9:33:05 AM
Attachments: PUBLIC Skiffes Creek outages table 100917 tdb emissions updates 10102017.pdf
Encrypted Non-Public Confidential CEII.zip
DOE Report Updated Outages 10 12 17.pdf

Second try

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michael.regulinski@dominionenergy.com

From: Michael Regulinski (Services - 6)
Sent: Thursday, October 12, 2017 4:39 PM
To: The.Secretary@hq.doe.gov; Hoffman, Patricia; Catherine.Jereza@HQ.DOE.GOV; Batra, Rakesh; Katherine.Konieczny@HQ.DOE.GOV
Cc: 'Pincus, Steven'; Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Burlew, James M.; Mohammed Alfayyumi (VirginiaPower - 1T) (mohammed.alfayyumi@dominionenergy.com); Mike Barmer (VirginiaPower - 1T)
Subject: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4

Confidential Contains CEII Material

Dear Secretary Perry:

PJM Interconnection, LLC and Virginia Electric and Power Company, dba Dominion Energy Virginia, respectfully submit the following in compliance with Order No. 202-17-4:

1. Report on Yorktown Units 1 and 2 Revised Construction Schedule;
2. Public version of Skiffes Creek outages table (CEII material redacted); and
3. Non-Public version of Skiffes Creek outages table (password protected contains CEII material).

Please contact me if you have any questions.

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intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

From: Michael Regulinski
To: Batra, Rakesh
Subject: 1 of 3 emails
Date: Tuesday, December 05, 2017 11:30:31 AM
Attachments: PUBLIC Skiffes Creek outages table 100917 tdb emissions updates 10102017....pdf

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From: Michael Regulinski
To: Batra, Rakesh
Subject: 2 of 3 emails
Date: Thursday, December 07, 2017 9:33:01 AM
Attachments: Encrypted Non-Public Confidential CFIL.ZIP

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NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

Outage	Outage Time Frame	Limiting Contingency	Load Threshold	Hours over Load Threshold**	Days over load threshold **	Dominion Emissions Estimates
(b) (3) (A)	7/9/17-9/29/17	(b) (3) (A)	>18,400 MW	87	18	NOx 243.06 SO2 933.11 PM10 52.62 CO2 122,385.80 Pb 0.0100 Hg 0.0015 HCl 22.01 HF 3.56 CO 11.88
(b) (3) (A)	34 1/2/18 – 2/9/18	(b) (3) (A)	>18,100 MW	5	2	NOx 27.01 SO2 103.68 PM10 5.85 CO2 13,598.40 Pb 0.0011 Hg 0.0002 HCl 2.45 HF 0.40 CO 1.32
(b) (3) (A)	9/29/17-10/27/17	(b) (3) (A)	>17,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	10/30/17-02/16/18	(b) (3) (A)	>17,200 MW	20	6	NOx 81.02 SO2 311.04 PM10 17.54 CO2 40,795.20 Pb 0.0033 Hg 0.0005 HCl 7.34 HF 1.19 CO 3.96
(b) (3) (A)	2/5/18 – 5/4/18	(b) (3) (A)	>18,000 MW	1	1	NOx 13.50 SO2 51.84 PM10 1.92 CO2 6,799.20 Pb 0.0006 Hg 0.0001

Stiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

						HCl 1.22 HF 0.20 CO 0.66
(b) (3) (A)	10/27/17 – 10/30/17	(b) (3) (A)		1 unit > 12,000 MW 2 units > 14,000 MW	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	2/19/18-3/31/18	(b) (3) (A)		1 unit > 14,400 MW, 2 units > 16,400 MW	1 0	NOx 13.50 SO2 51.84 PM10 2.92 CO2 6,799.20 Pb 0.0006 Hg 0.0001 HCl 1.22 HF 0.20 CO 0.66
(b) (3) (A)	4/2/18 – 4/28/18	(b) (3) (A)	e	>13,000 MW	2	NOx 13.50 SO2 51.84 PM10 2.92 CO2 6,799.20 Pb 0.0006 Hg 0.0001 HCl 1.22 HF 0.20 CO 0.66
(b) (3) (A)	4/2/18 - 4/28/18	(b) (3) (A)		>18,000 MW	0	
(b) (3) (A)	4/30/18 – 6/9/18	(b) (3) (A)		1 unit > 12,000 MW, 2 units > 14,000 MW	16 10	NOx 216.05 SO2 829.43 PM10 46.77 CO2 108,787.20 Pb 0.0089 Hg 0.0014 HCl 19.56 HF 3.17 CO 10.56
(b) (3) (A)	5/21/18 -9/23/18	(b) (3) (A)		>18,000 MW	88	NOx 229.56 SO2 881.27 PM10 49.69 CO2 115,586.40 Pb 0.0094 Hg 0.0014

Skiffes Creek Construction Transmission Outage Scheduled as of October 9 2017 (subject to change)

							HCl 20.79 HF 3.37 CO 11.22
(b) (3) (A)	9/16-18-11/2/18	(b) (3) (A)		1 unit > 12,000 MW 2 units > 14,000 MW	117 14	14 3	NOx 189.05 SO2 725.75 PM10 40.92 CO2 95,188.80 Pb 0.0078 Hg 0.0012 HCl 17.12 HF 2.77 CO 9.24
(b) (3) (A)	3/11/19-6/2/19	(b) (3) (A)		>17,200 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	3/11/19-3/17/19	(b) (3) (A)		>13,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	3/11/19-5/12/19	(b) (3) (A)		>18,100 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	3/18/19-3/24/19	(b) (3) (A)		1 unit > 14,400 MW, 2 units > 16,400MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

									CO 0.0
(b) (3) (A)	3/25/19-3/31/19	(b) (3) (A)			>18,000 MW	0	0		NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	4/1/19-4/7/19	(b) (3) (A)			>18,100 MW	0	0		NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	4/8/19-4/14/19	(b) (3) (A)			>18,100 MW	0	0		NOx 0.0 SO2 0.0 PM10 0.0 CO2 - Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
					Total Estimate	557	89		NOx 1201.80 SO2 4613.72 PM10 260.16 CO2 605,128.80 Pb 0.0493 Hg 0.0075 HCl 108.82 HF 17.62 CO 58.75

*Outages scheduled to complete 5/12/2019.

**** Estimates are for both Yorktown 1 & 2 units.**

NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

	07-2017	08-2017	09-2017	10-2017	11-2017	12-2017	01-2018	02-2018	03-2018	04-2018	05-2018	06-2018	07-2018	08-2018	09-2018	10-2018	11-2018	12-2018
Days over load threshold **	9	9	0	0	0	1	6	3	0	1	11	15	8	9	13	4	0	0
Hours over Load Threshold* *																		
NOx	39	48	0	0	0	3	18	9	0	2	95	124	43	45	105	26	0	0
SO2	57.39	5.0	0.0	0.0	0.0	13.50	81.02	40.51	0.0	13.50	148.54	202.55	108.03	121.53	175.54	54.01	0.0	0.0
PM10	39.157	20.3	0.0	0.0	0.0	51.84	311.04	155.51	0.0	51.84	570.23	777.59	414.72	466.56	673.91	207.36	0.0	0.0
CO2	372	1.53	0.0	0.0	0.0	2.92	17.54	8.77	0.0	2.92	32.15	43.85	23.39	26.31	38.00	11.69	0.0	0.0
Pb	43,173.9	2741.4	0.0	0.0	0.0	6,799.2	40,795.2	20,397.6	0.0	6,799.2	74,791.2	101,988	54,393.6	61,192.8	88,389.6	27,196.8	0.0	0.0
Hg	0.0040	0.00561	0.0	0.0	0.0	0.0006	0.0033	0.0017	0.0	0.0006	0.0061	0.0083	0.0044	0.0050	0.0072	0.0022	0.0	0.0
HCl	0.0008	0.00004	0.0	0.0	0.0	0.0001	0.0005	0.0003	0.0	0.0001	0.0009	0.0013	0.0007	0.0008	0.0011	0.0003	0.0	0.0
HF	11.48	0.5387	0.0	0.0	0.0	1.22	7.34	3.67	0.0	1.22	13.45	18.34	9.78	11.00	15.89	4.89	0.0	0.0
CO	1.43	0.07984	0.0	0.0	0.0	0.20	1.19	0.59	0.0	0.20	2.18	2.97	1.58	1.78	2.57	0.79	0.0	0.0
	4.78	0.25514	0.0	0.0	0.0	0.66	3.96	1.98	0.0	0.66	7.26	9.90	5.28	5.94	8.58	2.64	0.0	0.0

	01-2019	02-2019	03-2019	04-2019	05-2019
Days over load threshold **	0	0	0	0	0
Hours over Load Threshold **					
Dominion Emission Estimates (tons)					
NOx	0.0	0.0	0.0	0.0	0.0
SO2	0.0	0.0	0.0	0.0	0.0
PM10	0.0	0.0	0.0	0.0	0.0
CO2	-	-	-	-	-
Pb	0.0	0.0	0.0	0.0	0.0

NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of October 9, 2017 (subject to change)

	Hg	0.0	0.0	0.0	0.0	0.0
	HCl	0.0	0.0	0.0	0.0	0.0
	HF	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0

Figures highlighted in green are actual emission data for the month

From: Michael Regulinski
To: Batra, Rakesh
Subject: 3 of 3 emails
Date: Tuesday, December 05, 2017 11:31:13 AM
Attachments: DOE Report Updated Outages 10.12.17.pdf

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
teline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

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From: Pincus, Steven
To: [Batra, Rakesh](mailto:Rakesh.Batra@Hq.Doe.Gov)
Subject: RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Date: Tuesday, December 05, 2017 11:29:33 AM

I sent it. You might be having a problem due to its size. I will resend again.

From: Batra, Rakesh [<mailto:Rakesh.Batra@Hq.Doe.Gov>]
Sent: Tuesday, December 05, 2017 11:29 AM
To: Michael Regulinski; Pincus, Steven
Subject: RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4

External Email! Think before clicking links or attachments.

Strange. I haven't received it yet.

Rakesh

From: Michael Regulinski [<mailto:michael.regulinski@dominionenergy.com>]
Sent: Tuesday, December 05, 2017 11:22 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Pincus, Steven <Steven.Pincus@pjm.com>
Subject: RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Yes, at 10:30. I'll send again
Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
teline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

From: Batra, Rakesh [<mailto:Rakesh.Batra@Hq.Doe.Gov>]
Sent: Tuesday, December 05, 2017 11:20 AM
To: Michael Regulinski (Services - 6); Pincus, Steven
Subject: [External] RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Did you send it? I still haven't received it.
Please confirm.
Thanks,
Rakesh

From: Michael Regulinski [<mailto:michael.regulinski@dominionenergy.com>]
Sent: Thursday, October 12, 2017 4:42 PM
To: Secretary Perry <The.Secretary@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>
Cc: Pincus, Steven <Steven.Pincus@pjm.com>; Bryson, Mike E. <Michael.Bryson@pjm.com>; Souder, David W. <David.Souder@pjm.com>; Tam, Simon K. <Simon.Tam@pjm.com>; Glazer, Craig <Craig.Glazer@pjm.com>; O'Hara, Chris <Chris.OHara@pjm.com>; Burlew, James M. <James.Burlew@pjm.com>; Mohammed Alfayyumi

<mohammed.alfayyumi@dominionenergy.com>; Mike Barmer

<mike.barmer@dominionenergy.com>

Subject: RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4

The password for opening the Non-Public version of Skiffes Creek outages table is (b) (6)

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
tieline: 738-2794
P: (804) 819-2794
C: (b) (6)

michael.regulinski@dominionenergy.com

From: Michael Regulinski (Services - 6)

Sent: Thursday, October 12, 2017 4:39 PM

To: The.Secretary@hq.doe.gov; Hoffman, Patricia; Catherine.Jereza@HQ.DOE.GOV; Batra, Rakesh; Katherine.Konieczny@HQ.DOE.GOV

Cc: 'Pincus, Steven'; Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Burlew, James M.; Mohammed Alfayyumi (VirginiaPower - 1T) (mohammed.alfayyumi@dominionenergy.com); Mike Barmer (VirginiaPower - 1T)

Subject: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4

Confidential Contains CEII Material

Dear Secretary Perry:

PJM Interconnection, LLC and Virginia Electric and Power Company, dba Dominion Energy Virginia, respectfully submit the following in compliance with Order No. 202-17-4:

1. Report on Yorktown Units 1 and 2 Revised Construction Schedule;
2. Public version of Skiffes Creek outages table (CEII material redacted); and
3. Non-Public version of Skiffes Creek outages table (password protected contains CEII material).

Please contact me if you have any questions.

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
tieline: 738-2794
P: (804) 819-2794
C: (b) (6)

michael.regulinski@dominionenergy.com

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unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

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From: Michael Regulinski
To: Batra, Rakesh; Pincus, Steven
Subject: RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Date: Tuesday, December 05, 2017 11:29:57 AM

I'll send separately
Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
tieline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

From: Batra, Rakesh [<mailto:Rakesh.Batra@Hq.Doe.Gov>]
Sent: Tuesday, December 05, 2017 11:29 AM
To: Michael Regulinski (Services - 6); Pincus, Steven
Subject: [External] RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Strange. I haven't received it yet.
Rakesh

From: Michael Regulinski [<mailto:michael.regulinski@dominionenergy.com>]
Sent: Tuesday, December 05, 2017 11:22 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Pincus, Steven <Steven.Pincus@pjm.com>
Subject: RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Yes, at 10:30. I'll send again
Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
tieline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

From: Batra, Rakesh [<mailto:Rakesh.Batra@Hq.Doe.Gov>]
Sent: Tuesday, December 05, 2017 11:20 AM
To: Michael Regulinski (Services - 6); Pincus, Steven
Subject: [External] RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No. 202-17-4
Did you send it? I still haven't received it.
Please confirm.
Thanks,
Rakesh

From: Michael Regulinski [<mailto:michael.regulinski@dominionenergy.com>]
Sent: Thursday, October 12, 2017 4:42 PM
To: Secretary Perry <The.Secretary@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>;

Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine
<Katherine.Konieczny@Hq.Doe.Gov>

Cc: Pincus, Steven <Steven.Pincus@pjm.com>; Bryson, Mike E.
<Michael.Bryson@pjm.com>; Souder, David W. <David.Souder@pjm.com>; Tam,
Simon K. <Simon.Tam@pjm.com>; Glazer, Craig <Craig.Glazer@pjm.com>; O'Hara,
Chris <Chris.OHara@pjm.com>; Burlew, James M. <James.Burlew@pjm.com>;
Mohammed Alfayyumi <mohammed.alfayyumi@dominionenergy.com>; Mike
Barmer <mike.barmer@dominionenergy.com>

Subject: RE: Report on Yorktown Units 1 and 2 Revised Construction Schedule -
Order No. 202-17-4

The password for opening the Non-Public version of Skiffes Creek outages table is
(b) (6)

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
tieline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

From: Michael Regulinski (Services - 6)
Sent: Thursday, October 12, 2017 4:39 PM
To: The.Secretary@hq.doe.gov; Hoffman, Patricia; Catherine.Jereza@HQ.DOE.GOV;
Batra, Rakesh; Katherine.Konieczny@HQ.DOE.GOV
Cc: 'Pincus, Steven'; Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig;
O'Hara, Chris; Burlew, James M.; Mohammed Alfayyumi (VirginiaPower - 1T)
(mohammed.alfayyumi@dominionenergy.com); Mike Barmer (VirginiaPower - 1T)
Subject: Report on Yorktown Units 1 and 2 Revised Construction Schedule - Order No.
202-17-4

Confidential Contains CEII Material

Dear Secretary Perry:
PJM Interconnection, LLC and Virginia Electric and Power Company, dba
Dominion Energy Virginia, respectfully submit the following in compliance
with Order No. 202-17-4:

1. Report on Yorktown Units 1 and 2 Revised Construction Schedule;
2. Public version of Skiffes Creek outages table (CEII material redacted);
and
3. Non-Public version of Skiffes Creek outages table (password protected
contains CEII material).

Please contact me if you have any questions.

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
tieline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

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From: Mills, Brian
To: Konieczny, Katherine
Cc: Batra, Rakesh; Rosenbaum, Matthew
Subject: PJM 202(c) renewal
Date: Tuesday, December 05, 2017 3:15:24 PM

Do we have a draft renewal order ?

From: Mills, Brian
To: Jereza, Catherine
Cc: Batra, Rakesh; Rosenbaum, Matthew; Smith, Julie A (OE)
Subject: PJM 202(c) Draft CX
Date: Tuesday, December 05, 2017 3:33:31 PM
Attachments: CX 2017 202 PJM 12 05 17 Draft.doc

Attached is Draft CX for the subject renewal.
As you can see, I need the Order # before I can finalize
Brian

From: Michael Regulinski
To: Batra, Rakesh
Subject: Phone Call
Date: Tuesday, December 05, 2017 3:52:16 PM
Attachments: NON PUBLIC CONFIDENTIAL CEII Skiffes Creek outages table 100917 tdb emissions updates 10102017.pdf

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
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michael.regulinski@dominionenergy.com

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From: Jereza, Catherine
To: Mills, Brian
Cc: Batra, Rakesh; Rosenbaum, Matthew; Smith, Julie A (OE)
Subject: RE: PJM 202(c) Draft CX
Date: Tuesday, December 05, 2017 4:08:02 PM

(b) (5)

-----Original Message-----

From: Mills, Brian
Sent: Tuesday, December 05, 2017 3:33 PM
To: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Cc: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Roseubann, Matthew <Matthew.Rosenbaum@hq.doe.gov>;
Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>
Subject: PJM 202(c) Draft CX

Attached is Draft CX for the subject renewal.
As you can see, I need the Order # before I can finalize
Brian

From: Bittner, Kathy (CONTR)
To: Batra, Rakesh
Cc: Jereza, Catherine
Subject: RE: 2017-008959 - Yorktown Run Test Run Report (Order 202-17-4)
Date: Wednesday, December 06, 2017 10:15:02 AM
Attachments: 2017-008959 - Incoming.pdf

Hi Rakesh and Katie,

I believe that you both have received this, but wanted to send it just in case.

(b) (5)

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

Dominion Energy Services, Inc.
Law Department
120 Treadegar Street, Richmond, VA 23219
DominionEnergy.com



Michael Regulinski
Managing General Counsel
Direct: (804) 819-2794; Facsimile: (804) 819 2183
Email: michael.regulinski@dominionenergy.com

December 1, 2017

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-17-4

Dear Secretary Perry:

As requested by DOE staff and pursuant to Order No. 202-17-4 (the "Order") issued on September 14, 2017 by the Secretary of Energy ("Secretary"), PJM Interconnection, LLC ("PJM") and Virginia Electric and Power Company ("Dominion Energy Virginia") respectfully submits the attached spreadsheet (Attachment 1) that reflects historical operations and emissions data for Yorktown Units 1 and 2 for the years 2015-2017. As requested by the DOE staff, the spreadsheet provides the same categories of information and in the same format used in Attachment 3 of the September 28, 2017 Report on Yorktown Units 1 and 2 operations. The spreadsheet is provided in accordance with the Secretary's directive to report all dates on which Yorktown Units 1 and 2 are operated as well as the estimated emissions associated with their operations.¹

Attachment 1 shows the actual runtime and air emissions data for the period, and includes hourly runtime data for the equipment for the Yorktown units, and raw and calculated data showing emissions data associated with operations of the equipment. The information reports hourly emissions of PM-10 and SO₂ in pounds per hour and pounds per million BTU, and mercury in pounds per hour and pounds per trillion BTU (Mercury and Air Toxics Standards (MATS) format) for the operating period beginning

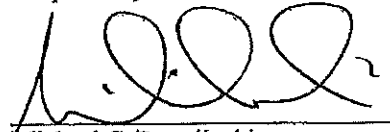
¹ Order at page 2.

January 1, 2015, through November 26, 2017. Additionally, Attachment 1 provides hourly emissions of NOx in pounds per hour, greenhouse gases (as CO2) in tons per hour, lead in pounds per hour, HCl in pounds per hour, HF in pounds per hour, and CO in pounds per hour. NOx and SO2 emissions are based on valid hours of Continuous Emissions Monitoring System (CEMS) data for the period. For the period beginning July 21, 2017, through November 26, 2017, PM-10 emissions are based on the emission factor derived from the July 21, 2017, stack test (0.0168 lbs/mmBtu corrected to 0.1143 lbs/mmBtu calculated for PM-10 filterable plus condensable). For the period beginning June 3, 2015, through July 20, 2017, PM-10 emissions are based on the emission factor derived from the June 3, 2015, stack test (0.015 lbs/mmBtu corrected to 0.087 lbs/mmBtu calculated for PM-10 filterable plus condensable). For the period beginning January 1, 2015, through June 2, 2015, PM-10 emissions are based on the emission factor derived from the July 29, 2014, stack test (0.035 lbs/mmBtu corrected to 0.1255 lbs/mmBtu calculated for PM-10 filterable plus condensable). CO2 emissions are based on valid CEMS hours for the operating period. All other emissions were calculated using emission factors from AP-42, Fifth Edition, Volume 1, Chapter 1: External Combustion Sources and calculated hourly coal consumption in tons.²

PJM and Dominion Energy Virginia respectfully submits the information in this report be accepted by the Secretary as compliant with the Order's directives to report all dates on which Yorktown Units 1 and 2 are operated well as the estimated and actual emissions associated with their operations.

² Mercury and lead emissions were calculated using AP-42, Table 1.1-18. CO emissions were calculated using emission factors from AP-42, Table 1.1-3. Total HAP metals and individual HAP metals are not provided because MATS Table 2 (40 CFR 63, Subpart UUUUU) provides for compliance with either the PM limit or total non-mercury HAP metals limits or individual HAP metals. Dominion Energy Virginia is providing PM-10 emissions for the purposes of MATS. HCl and HF emissions were calculated using emission factors from AP-42, Table 1.1-15.

Respectfully submitted,



Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
120 Tredegar Street, RS-2
Richmond, Virginia 23219
Phone: (804) 819-2794
Email: michael.regulinski@dominionenergy.com

Steven R. Pincus
Associate General Counsel
PJM Interconnection, L.L.C.
955 Jefferson Avenue
Valley Forge Corporate Center
Norristown, PA 19403-2497
Phone: 610-666-4370
Email: pincus@pjm.com

cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Casey Roberts, Sierra Club Environmental Law Program

Stanton, Kimberly (CONTR)

From: Michael Regulinski <michael.regulinski@dominionenergy.com>
Sent: Friday, December 01, 2017 3:10 PM
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; casey.roberts@sierraclub.org; Robinson, Evelyn; Pincus, Steven
Subject: Order No. 202-17-4 Report on Yorktown Operations
Attachments: Attachment 1 Yorktown Hourly Emissions Data VALUES 2015 thru 2017.xlsx; 2017-12-01 Dominion Energy letter to Secretary Perry.pdf

Please see attached Yorktown Report requested by DOE staff submitted by PJM Interconnection and Dominion Energy Virginia. Please let me know if you have any questions. Thanks, Mike

Michael C. Regulinski
Managing General Counsel

Dominion Energy Services, Inc.
teline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

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From: Konieczny, Katherine
To: Batra, Rakesh; Drake, Christopher
Cc: Mills, Brian; Jereza, Catherine; Rosenbaum, Matthew
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Thursday, December 07, 2017 8:54:50 AM

(b) (5)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 8:43 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (6), (b) (5)

Thanks,
Rakesh Batra
202-586-1283

From: Konieczny, Katherine
To: Batra, Rakesh; Drake, Christopher
Cc: Mills, Brian; Jereza, Catherine; Rosenbaum, Matthew
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Thursday, December 07, 2017 9:33:50 AM

Thanks! (b) (5)

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 9:28 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Please find attached Action Memo for your review.

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 8:55 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

(b) (5)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 8:43 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order (b) (5), (b) (6)

(b) (5), (b) (6)

Thanks,
Rakesh Batra
202-586-1283

From: Mills, Brian
To: Konieczny, Katherine; Batra, Rakesh; Drake, Christopher
Cc: Jereza, Catherine; Rosenbaum, Matthew; Smith, Julie A (OE)
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Thursday, December 07, 2017 9:53:34 AM
Attachments: CX 2017 202 PJM 12 07 17.doc

Kathy:
Draft CX attached. (b) (5)

Brian

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 8:55 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

(b) (5)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 8:43 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (5), (b) (6)

Thanks,
Rakesh Batra
202-586-1283

From: Konieczny, Katherine
To: Mills, Brian; Batra, Rakesh; Drake, Christopher
Cc: Jereza, Catherine; Rosenbaum, Matthew; Smith, Julie A (OE)
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Thursday, December 07, 2017 9:56:24 AM

(b) (5)

-----Original Message-----

From: Mills, Brian
Sent: Thursday, December 07, 2017 9:54 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Kathy:
Draft CX attached. (b) (5)

Brian

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 8:55 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

(b) (5)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 8:43 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (5), (b) (6)

(b) (5), (b) (6)

Thanks,
Rakesh Batra
202-586-1283

From: Bittner, Kathy (CONTR)
To: Jereza, Catherine; Batra, Rakesh
Subject: RE: 2017-008921 - PJM renewal request
Date: Thursday, December 07, 2017 12:23:29 PM
Attachments: 2017-008921- Action Memo to S1 12.8.17.docx

Hi Katie and Rakesh,

Attached please find the Action Memo from the last package. (b) (5)

Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine
Sent: Friday, December 01, 2017 2:14 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: RE: 2017-008921 - PJM renewal request

Hi Kathy - The order must be issued on or before December 13, which is a Wed. (b) (5)

Thanks
Katie

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Friday, December 01, 2017 2:04 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: 2017-008921 - PJM renewal request

Good afternoon Rakesh,

I wasn't sure if you and Katie have received this correspondence already, but wanted to make sure. (b) (5)

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy

Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

From: Jereza, Catherine
To: Batra, Rakesh
Subject: FW: 2017-008921 - PJM renewal request
Date: Thursday, December 07, 2017 12:27:24 PM
Attachments: 2017-008921- Action Memo to S1 12.8.17.docx

I believe it should go through Mark W. Menezes Under Secretary of Energy

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Thursday, December 07, 2017 12:23 PM
To: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
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Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
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Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

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Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

From: Konieczny, Katherine
To: Batra, Rakesh; Drake, Christopher
Cc: Mills, Brian; Jereza, Catherine; Rosenbaum, Matthew; King-Gilmore, Christy; Mumme, Bettina
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Thursday, December 07, 2017 1:01:05 PM
Attachments: 2017-008921- Action Memo to S1 12.8.17 GC76.docx
CX 2017 202 PJM 12 07 17.doc
DRAFT Order 202-18-2 as of 12-7 12pm.docx
DRAFT Order 202-18-2 Summary of Findings 12-7 12pm.docx
Importance: High

The draft renewal package is attached, (b) (5)

As always, please closely review the draft order and summary of findings for any inaccuracies, as we don't pretend to be the engineers here!

(b) (6)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 9:36 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Yes Please.

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 9:34 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Thanks! (b) (5)

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 9:28 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
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Subject: RE: PJM/Dominion 202 (C) Renewal Order

Please find attached Action Memo for your review.

Thanks,

Rakesh

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Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (5), (b) (6)

Thanks,
Rakesh Batra
202-586-1283

From: Mills, Brian
To: Konieczny, Katherine; Batra, Rakesh; Drake, Christopher
Cc: Jereza, Catherine; Rosenbaum, Matthew; King-Gilmore, Christy; Mumme, Bettina
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Thursday, December 07, 2017 3:15:00 PM
Attachments: CX 202_18_2.pdf

A review of the spreadsheet indicates that the units have been fired up parts of 20 days since June 14. (some days for less than 1 hour).

Page 2 Of 3 Findings discussion:

" To date, in accordance with Order Nos. 202-17-2 and 202-17-4, PJM reported operation of Yorktown Units 1 and/or 2 for all or part of 20 days"

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 1:01 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Mumme, Bettina <Bettina.Mumme@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Importance: High

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As always, please closely review the draft order and summary of findings for any inaccuracies, as we don't pretend to be the engineers here!

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Subject: RE: PJM/Dominion 202 (C) Renewal Order

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Subject: RE: PJM/Dominion 202 (C) Renewal Order

Thanks! (b) (5)

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Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: RE: PJM/Dominion 202 (C) Renewal Order

Please find attached Action Memo for your review.

Thanks,

Rakesh

-----Original Message-----

From: Konieczny, Katherine

Sent: Thursday, December 07, 2017 8:55 AM

To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: RE: PJM/Dominion 202 (C) Renewal Order

(b) (5)

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Kathy

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Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (5), (b) (6)

Thanks,

Rakesh Batra

202-586-1283



Department of Energy
Washington, DC 20585

December 07, 2017

RECORDS OF CATEGORICAL EXCLUSION DETERMINATION

Order No. 202-18-2

The National Environmental Policy Act (NEPA) requires federal agencies to prepare Environmental Impact Statements (EISs) for major federal actions significantly affecting the quality of the human environment.

The Department of Energy's (DOE's) regulations that implement NEPA (10 C.F.R. Part 1021) require it to determine whether a proposal requires that an EIS, an Environmental Assessment (EA), or a Categorical Exclusion (CX) be prepared. A CX refers to a category of actions that DOE has determined do not individually or cumulatively have a significant effect on the human environment. As such, DOE need not prepare an EA or an EIS for CX actions.

On June 13, 2017, PJM Interconnection, L.L.C. (PJM), the Regional Transmission Organization (RTO) whose service territory includes the North Hampton Roads area east of Richmond, Virginia, filed a *Request for Emergency Order Pursuant to Section 202(c) of the Federal Power Act* (FPA) with the United States DOE "to preserve the reliability of [the] bulk power electric transmission system in the North Hampton Roads area." The emergency order would require Virginia Electric and Power Company (Dominion Energy Virginia), the public utility serving the area, to operate its two coal-fired units at its Yorktown Power Station (Yorktown Unit 1 and Yorktown Unit 2) to react to electricity reliability emergencies.

On June 16, 2017, the Secretary of Energy, on behalf of the DOE, issued Order No. 202-17-2, determining that an electricity reliability emergency exists in the Commonwealth of Virginia, ordering Dominion Energy Virginia to operate Units 1 and 2 of the Yorktown Power Station from June 16, 2017 to September 14, 2017 only when called upon for electricity reliability emergency issues.

On August 24, 2017, PJM filed a *Request for reissuance of DOE Order No. 202-17-2*, with DOE "to preserve the reliability of the bulk power transmission system in the North Hampton Roads area." Reissuance of *DOE Order No. 202-17-2* would require Dominion Energy Virginia, to operate Yorktown Unit 1 and Yorktown Unit 2 to react to reliability emergencies from September 15, 2017 to December 13, 2017.

On September 14, 2017, the Secretary of Energy, on behalf of the DOE, issued Order No. 202-17-4, determining that an electricity reliability emergency exists in the Commonwealth of Virginia, ordering Dominion Energy Virginia to operate Units 1 and 2 of the Yorktown Power Station from September 15, 2017 to December 13, 2017 only when called upon for electricity reliability emergency issues.

On November 29, 2017, PJM filed a *Request for reissuance of DOE Order No. 202-17-4*, with DOE “to preserve the reliability of the bulk power transmission system in the North Hampton Roads area.” Reissuance of *DOE Order No. 202 17 4* would require Dominion Energy Virginia, to operate Yorktown Unit 1 and Yorktown Unit 2 to react to reliability emergencies from December 14, 2017 to March 13, 2018.

PROPOSED ACTION: The DOE proposed Federal action would be the reissuance of DOE Order No. 202-17-4, as DOE Order No. 202-18-2, an emergency order targeted to prevent uncontrolled power disruptions and shedding of critical load in the North Hampton Roads area on the Virginia Peninsula for 90 days.

FPA section 202(c) (2) requires the Secretary of Energy to ensure that any 202(c) order that may result in a conflict with a requirement of any environmental law be limited to the “hours necessary to meet the emergency and serve the public interest, and, to the maximum extent practicable,” be consistent with any applicable environmental law and minimize any adverse environmental impacts.

BACKGROUND: In November 2011, and again in October 2012, Dominion Energy Virginia notified PJM of its plan to deactivate both units, effective December 31, 2014, because the units were not equipped to comply with the Environmental Protection Agency’s (EPA) Mercury and Air Toxics Standards (MATS), 40 C.F.R. part 63 subpart UUUUU.

By letters dated December 14, 2011 and April 11, 2014, PJM notified Dominion Energy Virginia that the deactivation of Yorktown Units 1 and 2 respectively would adversely affect the PJM transmission system absent the installation of certain transmission upgrades necessary to address the reliability impacts. PJM included the required transmission upgrade known as the Skiffes Creek Transmission Project a new 500kV transmission line across the James River as an upgrade.

PJM load flow studies indicate that generation from Yorktown Units 1 and 2 will be needed to prevent the possibility of uncontrolled power disruptions in the North Hampton Roads area or other loss of grid reliability such as the implementation of an automated controlled load shed scheme.

Dominion Energy Virginia developed, an automated controlled load shed scheme known as the Remedial Action Scheme (“RAS”) or as the “North Hampton RAS” to address deactivation of the Yorktown Units. The North Hampton RAS” would result in a forced interruption of service to load on the Peninsula. During certain high load conditions, this power interruption could result in power loss effecting over 150,000 customers in the North Hampton Roads^a area of Virginia. In addition to residential customers, hospitals, nursing homes, schools, commercial,

^a The North Hampton Roads load area includes the following: Charles City County, James City County, York County, Williamsburg, Yorktown, Newport News, Poquoson, Hampton, Essex County, King William County, King and Queen County, Middlesex County, Mathews County, Gloucester County, the City of West Point, King George County, Westmoreland County, Northumberland County, Richmond County, Lancaster County, and the City of Colonial Beach.

industrial, and national defense facilities would be without power during those peak load conditions on the Peninsula.

CX TO BE APPLIED: The proposed action identified above fits within the classes listed in Appendix B to Subpart D, of 10 CFR Part 1021-Categorical exclusions applicable to specific agency actions. Specifically:

B4.4 Power marketing services and activities.


Power marketing services and power management activities (including, but not limited to, storage, load shaping and balancing, seasonal exchanges, and other similar activities), provided that the operations of generating projects would remain within normal operating limits.

REGULATORY REQUIREMENT: The DOE proposed action is the reissuance of DOE Order No. 202-17-4, as DOE Order No. 202-18-2. The DOE Order reissuance will continue the operational limitations described for electricity reliability emergency issues.

The expected combined operation of Yorktown Units 1 and 2 reacting to electricity reliability emergencies under DOE Order No. 202-18-2 will be well below normal operating capacities and limits of Yorktown Units 1 and 2.

DOE has determined that the proposed action identified above will not have a significant effect on the human environment. Authorizing the proposed action will not (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health including DOE and/or Executive orders; (2) require siting of new facilities or expansion of existing facilities; (3) disturb hazardous substances, pollutants or contaminants; or (4) adversely affect environmentally sensitive resources.

DETERMINATION: Based on my review of the above information concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class of actions, other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

Signature: 
Brian Mills
NEPA Compliance Officer
Office of Electricity Delivery
and Energy Reliability

Date: December 07, 2017

From: Konieczny, Katherine
To: Batra, Rakesh; Mills, Brian; Drake, Christopher
Cc: Jereza, Catherine; Rosenbaum, Matthew
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Thursday, December 07, 2017 11:34:54 PM
Attachments: 2017-008921- Action Memo to S1 12.8.17 GC76.docx
DRAFT Order 202-18-2 as of 12-7 11pm.docx
DRAFT Order 202-18-2 Summary of Findings 12-7 11pm.docx
OE Concurrence Sheet 120717 3PM.docx

The 202(c) renewal package is attached. (b) (5)

Please let us know if you have any questions. I'll update you when I hear from EPA.

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 3:35 PM
To: Mills, Brian <Brian.Mills@hq.doe.gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Mumme, Bettina <Bettina.Mumme@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

OE's input. Brian sent the CX document separately.

Thank you,
Rakesh

-----Original Message-----

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Sent: Thursday, December 07, 2017 3:15 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
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Subject: RE: PJM/Dominion 202 (C) Renewal Order

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Page 2 Of 3 Findings discussion:

" To date, in accordance with Order Nos. 202-17-2 and 202-17-4, PJM reported operation of Yorktown Units 1 and/or 2 for all or part of 20 days"

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Mumme, Bettina <Bettina.Mumme@hq.doe.gov>

Subject: RE: PJM/Dominion 202 (C) Renewal Order

Importance: High

The draft renewal package is attached, (b) (5)

As always, please closely review the draft order and summary of findings for any inaccuracies, as we don't pretend to be the engineers here!

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Subject: RE: PJM/Dominion 202 (C) Renewal Order

Both the draft order and summary of findings are written, (b) (5)

Thank you,
Kathy

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Sent: Thursday, December 07, 2017 8:43 AM

To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (5), (b) (6)

Thanks,
Rakesh Batra
202-586-1283

From: Mills, Brian
To: Konieczny, Katherine; Batra, Rakesh; Drake, Christopher
Cc: Jereza, Catherine; Rosenbaum, Matthew
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Friday, December 08, 2017 8:32:51 AM

(b) (5)

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 11:35 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

The 202(c) renewal package is attached. (b) (5)

Please let us know if you have any questions. I'll update you when I hear from EPA.

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 3:35 PM
To: Mills, Brian <Brian.Mills@hq.doe.gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Munne, Bettina <Bettina.Munne@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

OE's inpnt. Brian sent the CX document separately.

Thank you,
Rakesh

-----Original Message-----

From: Mills, Brian
Sent: Thursday, December 07, 2017 3:15 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Munne,

Bettina <Bettina.Mumme@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

A review of the spreadsheet indicates that the units have been fired up parts of 20 days since June 14. (some days for less than 1 hour).

Page 2 Of 3 Findings discussion:

" To date, in accordance with Order Nos. 202-17-2 and 202-17-4, PJM reported operation of Yorktown Units 1 and/or 2 for all or part of 20 days"

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 1:01 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Mumme, Bettina <Bettina.Mumme@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Importance: High

The draft renewal package is attached, (b) (5)

As always, please closely review the draft order and summary of findings for any inaccuracies, as we don't pretend to be the engineers here!

(b) (6)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 9:36 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Yes Please.

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 9:34 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Thanks! (b) (5)

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 9:28 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Please find attached Action Memo for your review.

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 8:55 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Both the draft order and summary of findings are written, (b) (5)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 8:43 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (5), (b) (6)

Thanks,
Rakesh Batra
202-586-1283

From: Bittner, Kathy (CONTR)
To: Batra, Rakesh; Mills, Brian
Cc: Jereza, Catherine
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Date: Friday, December 08, 2017 9:39:02 AM

Okay, let me know when I can send I out.

From: Batra, Rakesh
Sent: Friday, December 08, 2017 9:34 AM
To: Bittner, Kathy (CONTR) ; Mills, Brian
Cc: Jereza, Catherine
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Please remember that according to Kathy K, (b) (5)

Rakesh

From: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Date: Friday, Dec 08, 2017, 9:28 AM
To: Mills, Brian <Brian.Mills@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>, Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Thanks Brian. I will wait for the Summary of Findings (b) (5)

-----Original Message-----

From: Mills, Brian
Sent: Friday, December 08, 2017 9:22 AM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: FW: PJM/Dominion 202 (C) Renewal Order

Kathy: (b) (5)

Brian

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 11:35 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

The 202(c) renewal package is attached. (b) (5)

(b) (5)

Please let us know if you have any questions. I'll update you when I hear from EPA.

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 3:35 PM
To: Mills, Brian <Brian.Mills@hq.doe.gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Mumme, Bettina <Bettina.Mumme@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

OE's input. Brian sent the CX document separately.

Thank you,
Rakesh

-----Original Message-----

From: Mills, Brian
Sent: Thursday, December 07, 2017 3:15 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Mumme, Bettina <Bettina.Mumme@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

A review of the spreadsheet indicates that the units have been fired up parts of 20 days since June 14. (some days for less than 1 hour).

Page 2 Of 3 Findings discussion:

" To date, in accordance with Order Nos. 202-17-2 and 202-17-4, PJM reported operation of Yorktown Units 1 and/or 2 for all or part of 20 days"

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From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 1:01 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; King-Gilmore, Christy <Christy.King-Gilmore@hq.doe.gov>; Mumme, Bettina <Bettina.Mumme@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order
Importance: High

The draft renewal package is attached, (b) (5)

As always, please closely review the draft order and summary of findings for any inaccuracies, as we don't pretend to be the engineers here!

(b) (6)

Thank you,
Kathy

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 9:36 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Yes Please.

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 9:34 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Thanks! (b) (5)

-----Original Message-----

From: Batra, Rakesh
Sent: Thursday, December 07, 2017 9:28 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Please find attached Action Memo for your review.

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Thursday, December 07, 2017 8:55 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: PJM/Dominion 202 (C) Renewal Order

Both the draft order and summary of findings are written, (b) (5)

Thank you,

Kathy

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From: Batra, Rakesh

Sent: Thursday, December 07, 2017 8:43 AM

To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: PJM/Dominion 202 (C) Renewal Order

Kathe/Chris:

Please update us the status of PJM/Dominion 202 (C) Renewal Order. (b) (5), (b) (6)

Thanks,
Rakesh Batra
202-586-1283

From: Jereza, Catherine
To: Batra, Rakesh; Brian Mills; Rosenbaum, Matthew
Subject: RE: OE 202c related by Wed 12/13
Date: Tuesday, December 12, 2017 10:09:59 AM

Ok - thanks!

From: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Date: Tuesday, Dec 12, 2017, 7:06 AM
To: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>, Brian Mills <sherry-brian@comcast.net>, Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: OE 202c related by Wed 12/13

No, we don't. (b) (5), (b) (6)

I will follow up around 11.

Thanks,
Rakesh

From: Jereza, Catherine
Sent: Monday, December 11, 2017 7:08 PM
To: Batra, Rakesh ; Brian Mills ; Rosenbaum, Matthew
Subject: FW: OE 202c related by Wed 12/13
Do we?

From: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>
Date: Monday, Dec 11, 2017, 1:40 PM
To: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>, Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Cc: Drake, Christopher <Christopher.Drake@hq.doe.gov>
Subject: RE: OE 202c related by Wed 12/13
The EPA email just came through. (b) (5)

-----Original Message-----

From: Jereza, Catherine
Sent: Monday, December 11, 2017 7:48 AM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Doone, Alison <Alison.Doone@Hq.Doe.Gov>; Loraine, Jennifer A. <Jennifer.Loraine@hq.doe.gov>; Turenne, William <William.Turenne@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>; Menezes, Mark <Mark.Menezes@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Faith, Jayne <Jayne.Faith@hq.doe.gov>; Habansky, Sarah <Sarah.Habansky@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>; Swisher, Vivian P. (CONTR) <Vivian.Swisher@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Walker, Bruce <Bruce.Walker@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Fibbe, George <George.Fibbe@hq.doe.gov>; Lawrence, Shanika <Shanika.Lawrence@hq.doe.gov>; Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Fisher, Travis

<Travis.Fisher@hq.doe.gov>

Subject: OE 202c related by Wed 12/13

(b) (5)

BACKGROUND: Order No. 202-17-4, the Federal Power Act section 202(c) emergency order in effect for PJM and Dominion, ensures reliability in the North Hampton Roads area of Virginia, but it expires on December 13. PJM has requested another 90-day order. By statute, these orders are limited to 90 days in duration, and PJM expects it will need consecutive 202(c) orders through May 2019. In the renewal order, the Department of Energy repeats most of the terms of the current order, mainly requiring that PJM direct the operation of two coal-fired generation units owned by Dominion as needed to address reliability issues. The purpose is to avoid load shedding in the impacted area, which could extend to 150,000 customers including critical infrastructure facilities. This renewal order cross-references a Summary of Findings explaining both the rationale for and legality of the decision to renew Order No. 202-17-4 for another 90 days.

RECOMMENDATION: (b) (5)

Thank you!

Katie

Catherine Jereza

Deputy Assistant Secretary, Transmission Permitting & Technical Assistance

Office of Electricity Delivery & Energy Reliability

U.S. Department of Energy

(o) 202.586.0334

(c) (b) (6)

Shamika Lawrence

Shamika.Lawrence@hq.doe.gov

202.586.4666

** Please contact Shamika for all meeting and scheduling requests. **

From: Bittner, Kathy (CONTR)
To: Lucas, John T.; Dannenfelser, Marty; Doone, Alison; Loraine, Jennifer A.; Turenne, William; Haus, Bob; Menezes, Mark
Cc: GC Concurrence Actions; Faith, Jayne; Habansky, Sarah; Herron, Vernon; Cunningham, Derrick; Hoffman, Patricia; Walker, Bruce; Mills, Brian; Smith, Julie A (OE); Rosenbaum, Matthew; Batra, Rakesh; Konieczny, Katherine; Fibbe, George; Lawrence, Shamika; Fisher, Travis; Jereza, Catherine
Subject: RE: OE 202c related by Wed 12/13
Date: Tuesday, December 12, 2017 10:25:41 AM
Attachments: 2017-008921 - Incoming.pdf
2017-008921- Action Memo to S1 12.8.17.docx
Order 202-18-2 as of 12-11.docx
Order 202-18-2 Summary of Findings 12-11.docx
Importance: High

Good morning,

Attached please find the concurrence package for your review and concurrence.

May I please have your concurrence by 2:30 pm **today**?

Thanks

Kathy Bittner

Correspondence Specialist

ICF, Contractor for U.S. Department of Energy

Office of Electricity Delivery and Energy Reliability

Phone: (202) 287-5613

Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine

Sent: Monday, December 11, 2017 7:48 AM

To: Lucas, John T. ; Dannenfelser, Marty ; Doone, Alison ; Loraine, Jennifer A. ; Turenne, William ; Haus, Bob ; Menezes, Mark

Cc: GC Concurrence Actions ; Faith, Jayne ; Habansky, Sarah ; Herron, Vernon ; Cunningham, Derrick ; Swisher, Vivian P. (CONTR) ; Hoffman, Patricia ; Walker, Bruce ; Mills, Brian ; Smith, Julie A (OE) ; Rosenbaum, Matthew ; Batra, Rakesh ; Konieczny, Katherine ; Fibbe, George ; Lawrence, Shamika ; Bittner, Kathy (CONTR) ; Fisher, Travis

Subject: OE 202c related by Wed 12/13

(b) (5)

BACKGROUND: Order No. 202-17-4, the Federal Power Act section 202(c) emergency order in effect for PJM and Dominion, ensures reliability in the North Hampton Roads area of Virginia, but it expires on December 13. PJM has requested another 90-day order. By statute, these orders are limited to 90 days in duration, and PJM expects it will need consecutive 202(c) orders through May 2019. In the renewal order, the Department of Energy repeats most of the terms of the current order, mainly requiring that PJM direct the operation of two coal-fired generation units owned by Dominion as needed to address reliability issues. The purpose is to avoid load shedding in the impacted area, which could extend to 150,000 customers including critical infrastructure facilities. This renewal order cross-references a Summary of Findings explaining both the rationale for and legality of the

decision to renew Order No. 202-17-4 for another 90 days.

RECOMMENDATION: (b) (5)

Thank you!

Katie

Catherine Jereza

Deputy Assistant Secretary, Transmission Permitting & Technical Assistance

Office of Electricity Delivery & Energy Reliability

U.S. Department of Energy

(o) 202.586.0334

(c) (b) (6)

Shamika Lawrence

Shamika.Lawrence@hq.doe.gov

202.586.4666

** Please contact Shamika for all meeting and scheduling requests. **



PJM Interconnection, L.L.C.
2750 Monroe Boulevard
Ardubon, PA 19403

Steven R. Pincus
Associate General Counsel
T: (610) 666-4438 | F: (610) 666-8211
steven.pincus@pjm.com

November 29, 2017

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Order No. 202-17-4 Renewal Application Filing

Dear Secretary Perry:

Pursuant to Section 202(c) of the Federal Power Act ("FPA"),¹ Section 301(b) of the Department of Energy Organization Act,² the Department of Energy's ("DOE") Rules of Practice and Procedure³ and Order No. 202-17-4 issued on September 14, 2017 by the Secretary of Energy ("Secretary") (the "September 14 Order"), PJM Interconnection, L.L.C. ("PJM") respectfully submits a request for a 90-day renewal of the September 14 Order. PJM incorporates by reference PJM's application submitted on June 13, 2017 (the "June 13 Application") and all attachments and appendices thereto, and PJM's August 24, 2017 renewal application (the "August 24 Application") and all attachments and appendices thereto. PJM also incorporates by reference the various reports to DOE concerning the operations and emission data provided by PJM and Virginia Electric and Power Company ("Dominion Energy Virginia") referenced below.

¹ 16 U.S.C. § 824a(c).

² 42 U.S.C. § § 7101 and 7151(b).

³ 16 C.F.R. §§ 205.370, 205.371 and 205.372 and 205.373.

Background

In the June 13 Application, PJM stated the need to request renewals of the Order No. 202-17-2 issued on June 16, 2017 (the "June 16 Order") on a rolling basis until the PJM ordered Regional Transmission Expansion Planning Process ("RTEPP") Skiffes Creek Transmission Project is placed into service, which was at that time anticipated to be completed in 18-20 months once all permits are issued.⁴ In the June 16 Order, the Secretary determined "that an emergency exists in the Commonwealth of Virginia due to a shortage of electric energy, a shortage of facilities for the generation of electric energy, and other causes, and that issuance of this Order will meet the emergency and serve the public interest."⁵ In doing so, the Secretary directed Dominion Energy Virginia to operate Yorktown Units 1 and 2 as directed by PJM as needed to address reliability issues for the initial 90-day period, June 16, 2017 to September 14, 2017, or any renewal thereof.⁶ The Secretary also directed PJM and Dominion Energy Virginia to develop and implement a dispatch methodology and submit it to the DOE upon implementation.⁷ The dispatch methodology was submitted by PJM on June 27, 2017.

In the August 24 Application, PJM submitted a request for a 90 day renewal of the June 16 Order. PJM requested an order of the Secretary under Section 202 (c) of the FPA which provides among other things that an emergency continues to exist in the Commonwealth of Virginia due to a shortage of electric energy, a shortage of facilities for the generation of electric

⁴ On October 12, 2017, PJM and Dominion Energy Virginia submitted a report updating the outage schedule for the Skiffes Creek Transmission Project with an extension of the construction schedule of approximately five and one-half months from December 30, 2018 to May 12, 2019.

⁵ June 16 Order page 1.

⁶ June 16 Order page 2.

⁷ June 16 Order page 2.

energy, and other causes, and that issuance of a renewal order (*i.e.* the September 14 Order) will meet the emergency and serve the public interest for another 90 renewal period (*i.e.* from September 14, 2017 to December 13, 2017).

In the September 14 Order, the Secretary determined “that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation and transmission of electric energy.”⁸ The Secretary granted PJM’s August 24 Application allowing operation of Yorktown Units 1 and 2, with certain modifications, for an additional 90-day period to expire on December 13, 2017.⁹ The Secretary’s directives required PJM and Dominion to “exhaust all reasonably and practically available resources, including demand response and behind-the-meter generation resources, prior to operating Yorktown Unit 1 and Yorktown Unit 2” consistent with “good utility practices” and in compliance with the dispatch methodology.¹⁰

⁸ September 14 Order page 1

⁹ September 14 Order page 1

¹⁰ September 14 Order page 2, paragraphs A and B. PJM has a detailed registration process as applied to demand response resources which are serving as capacity resources. PJM would utilize that information in applying this provision recognizing that: (i) the amount of registered demand response resources on the peninsula is limited; and (ii) during the renewal period covered by this application, certain demand response resources are available to PJM only in the summer period during the period. PJM has catalogued behind the meter resources based on data provided by the United States Energy Information Administration (“EIA”), Dominion and other sources. Although behind the meter resources are not subject to PJM’s direction, PJM works with Dominion to seek their assistance pursuant to the existing dispatch methodology. However, the DOE’s directive that PJM and Dominion Energy Virginia exhaust reasonably and practically available demand response and/or behind-the-meter resources applies only if exhausting such resources would lessen the need to operate the Yorktown Units 1 and/or 2 for reliability of the grid consistent with the dispatch methodology, PJM’s Governing Agreements and good utility practices. For example, if demand response and/or behind-the-meter resources would not provide needed reactive support, or otherwise not lessen the need to operate the Yorktown units for reliability, such resources would not be “reasonably and practically available” and operating the resources would not be consistent with the dispatch methodology, PJM’s Governing Agreements and good utility practices.

The September 14 Order directed PJM and Dominion Energy Virginia to report every two weeks during the term of the September 14 Order all dates on which Yorktown Units 1 and/or 2 are operated and associated air emissions and water usages for those dates.¹¹ The Secretary also directed reporting in the event the outage schedule or estimates changes from those presented in the August 24 Application. PJM and Dominion Energy Virginia submitted reports on September 28, 2017, August 22, 2017 and November 10, 2017, on the operation of Yorktown Units 1 and/or 2, and a report on October 12, 2017 revising the Skiffs Creek Transmission Project construction schedule and providing associated emission estimates.

The September 14 Order stated that “(i)f the conditions creating the emergency remain substantially unchanged, a renewal request should be submitted at least 14 calendar days before (the September 14 Order) expires.”¹² As conditions creating the emergency remain substantially unchanged, this renewal application is due on November 29, 2017.

Renewal Request

As stated in the June 13 Application as revised by the August 24 Application, the Skiffes Creek Transmission Project was expected to be completed and placed into service approximately 18-20 months after receipt of all applicable permits. With issuance of the U.S. Army Corps of Engineers’ (“Army Corps”) permit on July 3, 2017, Dominion Energy Virginia started construction of the Skiffes Creek project on July 10, 2017. As reported on October 12, 2017, the Skiffs Creek Transmission Project is scheduled to be completed May 12, 2019. Thus, given the continued extended nature of the emergency, PJM respectfully submits that the emergency as set

¹¹ September 14 Order page 2, paragraph C.

¹² September 14 Order page 2, paragraph D.

forth in the June 13 Application and August 24 Application and as determined by the Secretary in the June 16 Order and September 14 continues to exist.

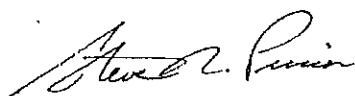
Therefore, PJM respectfully requests that the Secretary grant this renewal application and order the continued operation of Yorktown Units 1 and 2 to alleviate the emergency described in the June 13 Application, the August 24 Application and hereinabove prior to the expiration of the current order (*i.e.* December 13, 2017) under Section 202 (c) of the FPA. PJM request the requested renewal order provide as follows:

- (i) that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation and transmission of electric energy and that issuance of a renewal Order will meet the emergency and serve the public interest;
- (ii) from December 13, 2017 to March 13, 2018, Dominion Energy Virginia is directed to operate Yorktown Units 1 and 2 as directed by PJM as needed to maintain grid reliability or for other local area transmission issues;
- (iii) the limitations on operations ensure, to the maximum extent practicable, consistency with applicable laws and regulations, and the reporting requirements for operations and estimated emissions ensure transparency of implementation;
- (iv) consistent with the dispatch methodology submitted by PJM on June 27, 2017, good utility practice and the PJM Tariff, PJM and Dominion Energy Virginia shall exhaust all reasonably and practically available resources including demand response and identified behind-the-meter generation resources to the extent that

such resources address maintenance of grid reliability, prior to operating Yorktown Units 1 and/or 2;¹³

- (v) Dominion Energy Virginia shall continue to follow the dispatch methodology submitted by PJM on June 27, 2017;
- (vi) PJM and Dominion Energy Virginia shall report all dates on which Yorktown Units 1 and/or 2 are operated as well as the estimated emissions and water usage date for those dates within ten (10) business days of such operation; and
- (vii) in the event that the outage schedule or estimates change from those presented in this renewal application, within ten (10) business days PJM and Dominion Energy Virginia shall also provide updated outages schedules and associated Yorktown Units 1 and 2 emission estimates.

Respectfully submitted,



Steven R. Pincus
Associate General Counsel
PJM Interconnection, L.L.C.

Craig Glazer
VP, Federal Government Policy
PJM Interconnection, L.L.C.

Cc (via electronic mail): Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Michael C. Regulinski, Dominion Energy Services, Inc.
Casey Roberts, Sierra Club Environmental Law Program

¹³ See Footnote 10.

Johnsen, Steven (MA)

From: Pincus, Steven <Steven.Pincus@pjm.com>
Sent: Wednesday, November 29, 2017 4:13 PM
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Michael Regulinski (Services - 6); Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Michael Regulinski (Services - 6); casey.roberts@sierraclub.org; Robinson, Evelyn
Subject: Order No. 202-17-4 Renewal Application Filing
Attachments: DOE Order 202-17-4 PJM Renewal Application Letter 11-29-17.pdf

Dear Secretary Perry:

PJM respectfully submits for filing a ninety (90) day Renewal Application in accordance with Section 202(c) of the Federal Power Act, the Department of Energy's Rules of Practice and Procedure and Order No. 202-17-4.

Please contact me if you have any questions.

Thank you for your consideration.

Respectfully,

Steven R. Pincus
Associate General Counsel, Office of General Counsel

(610) 666-4370 | C: (b) (6) | Steven.Pincus@pjm.com
PJM Interconnection | 2750 Monroe Blvd. | Audubon, PA 19403

11/29/2017 4:13 PM

From: Bittner, Kathy (CONTR)
To: Batra, Rakesh
Subject: FW: OE 202c related by Wed 12/13
Date: Tuesday, December 12, 2017 1:01:17 PM
Attachments: 2017-008921- Action Memo to S1 12.8.17.docx
Importance: High

Rakesh,
Please see Memo for Marty's question.
Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

From: Dannenfelser, Marty
Sent: Tuesday, December 12, 2017 12:59 PM
To: Bittner, Kathy (CONTR)
Subject: RE: OE 202c related by Wed 12/13
Kathy,
(b) (5)

Thanks.

Marty

From: Bittner, Kathy (CONTR)
Sent: Tuesday, December 12, 2017 10:26 AM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Doone, Alison <Alison.Doone@Hq.Doe.Gov>; Loraine, Jennifer A. <Jennifer.Loraine@hq.doe.gov>; Turenne, William <William.Turenne@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>; Menezes, Mark <Mark.Menezes@hq.doe.gov>
Cc: GC Concurrence Actions <GCCConcurrenceActions@hq.doe.gov>; Faith, Jayne <Jayne.Faith@hq.doe.gov>; Habansky, Sarah <Sarah.Habansky@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Walker, Bruce <Bruce.Walker@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Fibbe, George <George.Fibbe@hq.doe.gov>; Lawrence, Shamika <Shamika.Lawrence@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: RE: OE 202c related by Wed 12/13
Importance: High

Good morning,
Attached please find the concurrence package for your review and concurrence.
May I please have your concurrence by 2:30 pm **today**?
Thanks
Kathy Bittner

Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine

Sent: Monday, December 11, 2017 7:48 AM

To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Doone, Alison <Alison.Doone@Hq.Doe.Gov>; Loraine, Jennifer A. <Jennifer.Loraine@hq.doe.gov>; Turenne, William <William.Turenne@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>; Menezes, Mark <Mark.Menezes@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Faith, Jayne <Jayne.Faith@hq.doe.gov>; Habansky, Sarah <Sarah.Habansky@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>; Swisher, Vivian P. (CONTR) <Vivian.Swisher@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Walker, Bruce <Bruce.Walker@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Fibbe, George <George.Fibbe@hq.doe.gov>; Lawrence, Shamika <Shamika.Lawrence@hq.doe.gov>; Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>

Subject: OE 202c related by Wed 12/13

(b) (5)

BACKGROUND: Order No. 202-17-4, the Federal Power Act section 202(c) emergency order in effect for PJM and Dominion, ensures reliability in the North Hampton Roads area of Virginia, but it expires on December 13. PJM has requested another 90-day order. By statute, these orders are limited to 90 days in duration, and PJM expects it will need consecutive 202(c) orders through May 2019. (b) (5)

This renewal order cross-references a Summary of Findings explaining both the rationale for and legality of the decision to renew Order No. 202-17-4 for another 90 days.

RECOMMENDATION: (b) (5)

Thank you!

Katie

Catherine Jereza

Deputy Assistant Secretary, Transmission Permitting & Technical Assistance
Office of Electricity Delivery & Energy Reliability

U.S. Department of Energy

(o) 202.586.0334

(c) (b) (6)

Shamika Lawrence

Shamika.Lawrence@hq.doe.gov

202.586.4666

** Please contact Shamika for all meeting and scheduling requests. **

From: Konieczny, Katherine
To: Jereza, Catherine; Drake, Christopher
Cc: Batra, Rakesh
Subject: RE: Email to PJM Dominion SC
Date: Wednesday, December 13, 2017 9:29:02 AM

Yes, (b) (5)

The email text you provided works well for today's issuance. Happy travels!

-----Original Message-----

From: Jereza, Catherine
Sent: Wednesday, December 13, 2017 8:59 AM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: Email to PJM Dominion SC

Hi Kathy and Chris - (b) (5)

I have a copy of the email below. (b) (5)

(b) (6)

Thanks!
Katie

To: Steven.Pincus@pjm.com; craig.glazer@pjm.com; michael.regulinski@dominionenergy.com; sanjay.narayan@sierraclub.org; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com

CC: Walker, Bruce <Bruce.Walker@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Katherine Konieczny (Katherine.Konieczny@Hq.Doe.Gov); Drake, Christopher <Christopher.Drake@hq.doe.gov>

Subject: DOE Order 202-18-2

Good afternoon,

Today the Secretary of Energy issued Order No. 202-18-2. The Order and Summary of Findings are attached.

Regards,
Katie

From: [Konieczny, Katherine](#)
To: [Batra, Rakesh](#); [Bittner, Kathy \(CONTR\)](#)
Cc: [Drake, Christopher](#)
Subject: RE: OE 202c Wed 12/13
Date: Wednesday, December 13, 2017 9:54:00 PM

The order references the Summary of Findings, so that should also be sent in PDF form to the same distribution list. Please let me or Chris know if we can help.
-Kathy

From: [Batra, Rakesh](#) <Rakesh.Batra@Hq.Doe.Gov>
Date: Wednesday, Dec 13, 2017, 9:24 PM
To: [Konieczny, Katherine](#) <Katherine.Konieczny@Hq.Doe.Gov>, [Bittner, Kathy \(CONTR\)](#) <Kathy.Bittner@hq.doe.gov>
Subject: FW: OE 202c Wed 12/13

Sorry, forgot to Cc you. It was signed and sent.

Thanks for your support.

Rakesh

From: [Batra, Rakesh](#) <Rakesh.Batra@Hq.Doe.Gov>
Date: Wednesday, Dec 13, 2017, 6:39 PM
To: [Pincus, Steven](#) <Steven.Pincus@pjm.com>, [Glazer, Craig](#) <Craig.Glazer@pjm.com>, [Michael Regulinski](#) <michael.regulinski@dominionenergy.com>, [sanjay.narayan@sierraclub.org](#); [casey.roberts@sierraclub.org](#); [bridget.lee@sierraclub.org](#); [kfinto@hunton.com](#) <sanjay.narayan@sierraclub.org>, [casey.roberts@sierraclub.org](#) <casey.roberts@sierraclub.org>, [bridget.lee@sierraclub.org](#) <bridget.lee@sierraclub.org>, [kfinto@hunton.com](#) <kfinto@hunton.com>
Cc: [Jereza, Catherine](#) <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c Wed 12/13

Attached is the signed Order No. 202-18-2. We will update the website tomorrow.

Thanks
Rakesh

From: Jereza, Catherine
To: Batra, Rakesh
Subject: RE: OE 202c Wed 12/13
Date: Wednesday, December 13, 2017 10:18:42 PM

Awesome!!!!

From: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Date: Wednesday, Dec 13, 2017, 6:39 PM
To: Pincus, Steven <Steven.Pincus@pjm.com>, Glazer, Craig <Craig.Glazerpjm.com>, Michael Regulinski <michael.regulinski@dominionenergy.com>, sanjay.narayan@sierraclub.org; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com <sanjay.narayan@sierraclub.org>, casey.roberts@sierraclub.org <casey.roberts@sierraclub.org>, bridget.lee@sierraclub.org <bridget.lee@sierraclub.org>, kfinto@hunton.com <kfinto@hunton.com>
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c Wed 12/13

Attached is the signed Order No. 202-18-2. We will update the website tomorrow.

Thanks
Rakesh

From: Bittner, Kathy (CONTR)
To: Jereza, Catherine; Batra, Rakesh
Subject: RE: PJM 90 day renewal (2017-008921)
Date: Wednesday, December 13, 2017 10:24:54 AM

Katie,

(b) (5)

Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine
Sent: Wednesday, December 13, 2017 8:32 AM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: RE: PJM 90 day renewal (2017-008921)

Great - thank you!

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, December 13, 2017 7:55 AM
To: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: PJM 90 day renewal (2017-008921)

Good morning Katie,

I have received GC/CI/PA/CFO concurrences on the package and have taken it upstairs to Exec Sec.

(b) (5)

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

From: Fickel, Louise
To: Batra, Rakesh
Cc: Rosenbaum, Matthew
Subject: renewal
Date: Wednesday, December 13, 2017 12:05:54 PM

Good morning Rakesh -

Just checking in to see if the 90-day renewal of the September 14 Order has been issued and is ready for posting on the OE website.

Louise

From: Bittner, Kathy (CONTR)
To: Jereza, Catherine
Cc: Batra, Rakesh; Mills, Brian
Subject: URGENT - RESPONSE NEEDED - RE: PJM 90 day renewal (2017-008921)
Date: Wednesday, December 13, 2017 12:37:12 PM
Importance: High

Katie,

I just received a phone call from Exec Sec. (b) (5)

Please advise.

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine
Sent: Wednesday, December 13, 2017 8:32 AM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: RE: PJM 90 day renewal (2017-008921)

Great - thank you!

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, December 13, 2017 7:55 AM
To: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: PJM 90 day renewal (2017-008921)

Good morning Katie,

I have received GC/CLPA/CFO concurrences on the package and have taken it upstairs to Exec Sec.

(b) (5)

Kathy Bittner
Correspondence Specialist

ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

From: Bittner, Kathy (CONTR)
To: Bowie, America
Cc: Rosenbaum, Matthew; Batra, Rakesh; Mills, Brian; Jereza, Catherine
Subject: FW: OE 202c related by Wed 12/13
Date: Wednesday, December 13, 2017 1:10:11 PM

Hi America,

Please see email below that Katie sent out on Monday.

OE's POCs for this package are:

DAS/Katie Jereza (b) (6) (cell)
Matt Rosenbaum6-1060 or (b) (6) (cell)
Rakesh Batra6-1283 or (b) (6) (cell)
Brian Mills6-8267

Please let me know if you need additional information.

Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine
Sent: Monday, December 11, 2017 7:48 AM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Dammelfelser, Marty <Marty.Dammelfelser@hq.doe.gov>; Doone, Alison <Alison.Doone@Hq.Doe.Gov>; Loraine, Jennifer A. <Jennifer.Loraine@hq.doe.gov>; Turenne, William <William.Turenne@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>; Menezes, Mark <Mark.Menezes@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Faith, Jayne <Jayne.Faith@hq.doe.gov>; Habansky, Sarah <Sarah.Habansky@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>; Swisher, Vivian P. (CONTR) <Vivian.Swisher@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Walker, Bruce <Bruce.Walker@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Fibbe, George <George.Fibbe@hq.doe.gov>; Lawrence, Shamika <Shamika.Lawrence@hq.doe.gov>; Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>
Subject: OE 202c related by Wed 12/13

(b) (5)

(b) (5)

BACKGROUND: Order No. 202-17-4, the Federal Power Act section 202(c) emergency order in effect for PJM and Dominion, ensures reliability in the North Hampton Roads area of Virginia, but it expires on December 13. PJM has requested another 90-day order. By statute, these orders are limited to 90 days in duration, and PJM expects it will need consecutive 202(c) orders through May 2019. In the renewal order, the Department of Energy repeats most of the terms of the current order, mainly requiring that PJM direct the operation of two coal-fired generation units owned by Dominion as needed to address reliability issues. The purpose is to avoid load shedding in the impacted area, which could extend to 150,000 customers including critical infrastructure facilities. This renewal order cross-references a Summary of Findings explaining both the rationale for and legality of the decision to renew Order No. 202-17-4 for another 90 days.

RECOMMENDATION: (b) (5)

Thank you!
Katie

Catherine Jereza
Deputy Assistant Secretary, Transmission Permitting & Technical Assistance
Office of Electricity Delivery & Energy Reliability
U.S. Department of Energy
(o) 202.586.0334
(c)(b) (6)

Shamika Lawrence
Shamika.Lawrence@hq.doe.gov
202.586.4666

** Please contact Shamika for all meeting and scheduling requests. **

From: Bowie, America
To: Mills, Brian; Bittner, Kathy (CONTR)
Cc: Rosenbaum, Matthew; Batra, Rakesh; Jereza, Catherine
Subject: RE: OE 202c related by Wed 12/13
Date: Wednesday, December 13, 2017 3:58:53 PM

No. (b) (5)

-----Original Message-----

From: Mills, Brian
Sent: Wednesday, December 13, 2017 3:49 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Bowie, America <America.Bowie@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>;
Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: RE: OE 202c related by Wed 12/13

America:
(b) (5)

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, December 13, 2017 1:10 PM
To: Bowie, America <America.Bowie@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>;
Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c related by Wed 12/13

Hi America,

Please see email below that Katie sent out on Monday.

OE's POCs for this package are:

DAS/Katie Jereza (b) (6) (cell)
Matt Rosenbaum6-1060 or (b) (6) (cell)
Rakesh Batra6-1283 or (b) (6) (cell)
Brian Mills6-8267

Please let me know if you need additional information.

Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine

Sent: Monday, December 11, 2017 7:48 AM

To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Doone, Alison <Alison.Doone@Hq.Doe.Gov>; Loraine, Jennifer A. <Jennifer.Loraine@hq.doe.gov>; Turenne, William <William.Turenne@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>; Menezes, Mark <Mark.Menezes@hq.doe.gov>

Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Faith, Jayne <Jayne.Faith@hq.doe.gov>; Habansky, Sarah <Sarah.Habansky@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>; Swisher, Vivian P. (CONTR) <Vivian.Swisher@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Walker, Bruce <Bruce.Walker@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Fibbe, George <George.Fibbe@hq.doe.gov>; Lawrence, Shamika <Shamika.Lawrence@hq.doe.gov>; Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>

Subject: OE 202c related by Wed 12/13

(b) (5)

BACKGROUND: Order No. 202-17-4, the Federal Power Act section 202(c) emergency order in effect for PJM and Dominion, ensures reliability in the North Hampton Roads area of Virginia, but it expires on December 13. PJM has requested another 90-day order. By statute, these orders are limited to 90 days in duration, and PJM expects it will need consecutive 202(c) orders through May 2019. (b) (5)

. This
renewal order cross-references a Summary of Findings explaining both the rationale for and legality of the decision to renew Order No. 202-17-4 for another 90 days.

RECOMMENDATION: (b) (5)

Thank you!
Katie

Catherine Jereza
Deputy Assistant Secretary, Transmission Permitting & Technical Assistance
Office of Electricity Delivery & Energy Reliability
U.S. Department of Energy
(o) 202.586.0334
(c)(b) (6)

Shamika Lawrence
Shamika.Lawrence@hq.doe.gov
202.586.4666

** Please contact Shamika for all meeting and scheduling requests. **

From: Bowie, America
To: Mills, Brian; Bittner, Kathy (CONTR)
Cc: Rosenbaum, Matthew; Batra, Rakesh; Jereza, Catherine
Subject: RE: OE 202c related by Wed 12/13
Date: Wednesday, December 13, 2017 5:35:48 PM

5:30 Update. (b) (5)

-----Original Message-----

From: Mills, Brian
Sent: Wednesday, December 13, 2017 3:49 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Bowie, America <America.Bowie@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: RE: OE 202c related by Wed 12/13

America:
(b) (5)

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, December 13, 2017 1:10 PM
To: Bowie, America <America.Bowie@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c related by Wed 12/13

Hi America,

Please see email below that Katie sent out on Monday.

OE's POCs for this package are:

DAS/Katie Jereza (b) (6) (cell)
Matt Rosenbaum 6-1060 or (b) (6) (cell)
Rakesh Batra 6-1283 or (b) (6) (cell)
Brian Mills 6-8267

Please let me know if you need additional information.

Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine

Sent: Monday, December 11, 2017 7:48 AM

To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Doone, Alison <Alison.Doone@Hq.Doe.Gov>; Loraine, Jennifer A. <Jennifer.Loraine@hq.doe.gov>; Turenne, William <William.Turenne@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>; Menezes, Mark <Mark.Menezes@hq.doe.gov>

Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Faith, Jayne <Jayne.Faith@hq.doe.gov>; Habansky, Sarah <Sarah.Habansky@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>; Swisher, Vivian P. (CONTR) <Vivian.Swisher@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Walker, Bruce <Bruce.Walker@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Fibbe, George <George.Fibbe@hq.doe.gov>; Lawrence, Shamika <Shamika.Lawrence@hq.doe.gov>; Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>

Subject: OE 202c related by Wed 12/13

(b) (5)

BACKGROUND: Order No. 202-17-4, the Federal Power Act section 202(c) emergency order in effect for PJM and Dominion, ensures reliability in the North Hampton Roads area of Virginia, but it expires on December 13. PJM has requested another 90-day order. By statute, these orders are limited to 90 days in duration, and PJM expects it will need consecutive 202(c) orders through May 2019. (b) (5)

. This
renewal order cross-references a Summary of Findings explaining both the rationale for and legality of the decision to renew Order No. 202-17-4 for another 90 days.

RECOMMENDATION: (b) (5)

Thank you!
Katie

Catherine Jereza
Deputy Assistant Secretary, Transmission Permitting & Technical Assistance
Office of Electricity Delivery & Energy Reliability
U.S. Department of Energy
(o) 202.586.0334
(c) (b) (6)

Shamika Lawrence
Shamika.Lawrence@hq.doe.gov
202.586.4666

** Please contact Shamika for all meeting and scheduling requests. **

From: Bowie, America
To: Mills, Brian; Bittner, Kathy (CONTR)
Cc: Rosenbaum, Matthew; Batra, Rakesh; Jereza, Catherine
Subject: RE: OE 202c related by Wed 12/13
Date: Wednesday, December 13, 2017 5:54:49 PM
Attachments: EXEC-2017-008921 Signed Order 202-18-2.pdf

Attached is the signed Order No. 202-18-2.

-----Original Message-----

From: Mills, Brian
Sent: Wednesday, December 13, 2017 3:49 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Bowie, America <America.Bowie@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: RE: OE 202c related by Wed 12/13

America:
(b) (5)

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, December 13, 2017 1:10 PM
To: Bowie, America <America.Bowie@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c related by Wed 12/13

Hi America,

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OE's POCs for this package are:

DAS/Katie Jereza (b) (6) (cell)
Matt Rosenbaum 6-1060 or (b) (6) (cell)
Rakesh Batra 6-1283 or (b) (6) (cell)
Brian Mills 6-8267

Please let me know if you need additional information.

Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Jereza, Catherine

Sent: Monday, December 11, 2017 7:48 AM

To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Doone, Alison <Alison.Doone@Hq.Doe.Gov>; Loraine, Jennifer A. <Jennifer.Loraine@hq.doe.gov>; Turenne, William <William.Turenne@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>; Menezes, Mark <Mark.Menezes@hq.doe.gov>

Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Faith, Jayne <Jayne.Faith@hq.doe.gov>; Habansky, Sarah <Sarah.Habansky@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>; Swisher, Vivian P. (CONTR) <Vivian.Swisher@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Walker, Bruce <Bruce.Walker@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Smith, Julie A (OE) <JulieA.Smith@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Fibbe, George <George.Fibbe@hq.doe.gov>; Lawrence, Shamika <Shamika.Lawrence@hq.doe.gov>; Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>

Subject: OE 202c related by Wed 12/13

(b) (5)

BACKGROUND: Order No. 202-17-4, the Federal Power Act section 202(c) emergency order in effect for PJM and Dominion, ensures reliability in the North Hampton Roads area of Virginia, but it expires on December 13. PJM has requested another 90-day order. By statute, these orders are limited to 90 days in duration, and PJM expects it will need consecutive 202(c) orders through May 2019. (b) (5)

This
renewal order cross-references a Summary of Findings explaining both the rationale for and legality of the decision to renew Order No. 202-17-4 for another 90 days.

RECOMMENDATION: (b) (5)

Thank you!
Katie

Catherine Jereza
Deputy Assistant Secretary, Transmission Permitting & Technical Assistance
Office of Electricity Delivery & Energy Reliability
U.S. Department of Energy
(o) 202.586.0334
(c)(b) (6)

Shamika Lawrence
Shamika.Lawrence@hq.doe.gov
202.586.4666

** Please contact Shamika for all meeting and scheduling requests. **



Department of Energy
Washington, DC 20585

Order No. 202-18-2

On November 29, 2017, PJM Interconnection, L.L.C. (PJM) submitted *Order No. 202-17-4 Renewal Application Filing* (Renewal Application) to the U.S. Department of Energy (DOE or Department). PJM is the Regional Transmission Operator (RTO) responsible for the reliability of the bulk power grid across several states, including in the North Hampton Roads area of Virginia.¹ Previously, on June 16, 2017, DOE issued Order No. 202-17-2 under section 202(c) of the Federal Power Act (FPA), 16 U.S.C. § 824a(c). That order authorized PJM to direct Virginia Electric and Power Company² (Dominion) to operate coal-fired Units 1 and 2 of its Yorktown Power Station, under certain specified circumstances, and only for a 90-day period. Order No. 202-17-4, issued on September 14, 2017 and under the same statutory authority, renewed Order No. 202-17-2 for an additional 90-day period. Order No. 202-17-4 expires at the end of today, by its own terms and by statute. 16 U.S.C. § 824a(c)(4)(A). In its Renewal Application, PJM asserts that there is a continuing emergency in the North Hampton Roads area of Virginia and asks the Department for another 90-day renewal.

Based on data and information submitted to the Department, and as explained in the accompanying Summary of Findings, I have determined that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation and transmission of electric energy. I find that issuance of this Order will meet the emergency and serve the public interest in the North Hampton Roads area, as required by FPA section 202(c). I have imposed limitations on operations outlined in this Order to ensure, to the maximum extent practicable, consistency with applicable environmental laws and regulations, and the reporting requirements for operations and estimated emissions ensure transparency of implementation. Accordingly, I hereby grant PJM's Renewal Application and issue Order No. 202-18-2 to allow operation of Yorktown Units 1 and 2, with modifications as explained below, for an additional 90-day period to expire on March 13, 2018.

¹ PJM has stated that "[t]he North Hampton Roads load area includes . . . Charles City County, James City County, York County, Williamsburg, Yorktown, Newport News, Poquoson, Hampton, Essex County, King William County, King and Queen County, Middlesex County, Mathews County, Gloucester County, the City of West Point, King George County, Westmoreland County, Northumberland County, Richmond County, Lancaster County, and the City of Colonial Beach." *Request for Emergency Order Pursuant to Section 202(c) of the Federal Power Act*, at 1 n.4 (June 13, 2017). Williamsburg, Newport News, Poquoson, and Hampton are independent cities; Yorktown is a Census-Designated Place and the county seat of York County; West Point is a town in King William County; and Colonial Beach is a town in Westmoreland County.

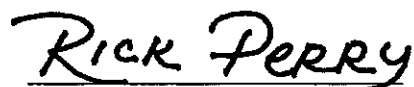
² Virginia Electric and Power Company's parent company is Dominion Energy, Inc.

Department of Energy Order No. 202-18-2

As I have determined that an emergency exists in the North Hampton Roads area of Virginia, I hereby order:

- A. By Eastern Prevailing Time, beginning on December 14, 2017, and continuing through March 13, 2018, in the event that PJM determines that generation from Yorktown Units 1 and/or 2 is needed to maintain grid reliability, Dominion shall operate Units 1 and/or 2 of the Yorktown Power Station as directed by PJM only as needed to address reliability issues. This directive applies under either or both of Scenario One and Scenario Two as described in the accompanying Summary of Findings. This directive incorporates and maintains the operational limitations described in the Environmental Protection Agency's Administrative Compliance Order, AED-CAA-113(a)-2016-0005. Consistent with good utility practice and the dispatch methodology submitted by PJM on June 27, 2017, PJM and Dominion shall exhaust all reasonably and practically available resources, including demand response and identified behind-the-meter generation resources to the extent that such resources provide support to maintain grid reliability, prior to operating Yorktown Unit 1 or Yorktown Unit 2.
- B. Dominion shall continue to comply with the dispatch methodology submitted by PJM on June 27, 2017.
- C. Every two weeks, PJM and Dominion shall report all dates between December 13, 2017 and March 13, 2018, on which Yorktown Units 1 and/or 2 are operated, and the associated air emissions and water usage for those dates. Specifically, PJM and/or Dominion shall report, in units that align with those used in 40 C.F.R. Part 63, Subpart UUUUU, Table 2, the daily air emissions of: 1) filterable particulate matter (PM) or total non-mercury hazardous air pollutant (HAP) metals or individual HAP metals, 2) hydrogen chloride (HCl) or sulfur dioxide (SO₂), and 3) mercury (Hg). PJM and/or Dominion shall also report daily air emissions of greenhouse gases and nitrogen oxides (NO_x) and daily water usage. In the event that the outage schedule or estimates change from those presented in the Renewal Application, PJM and/or Dominion shall also provide updated outage schedules and associated Yorktown Unit 1 and Yorktown Unit 2 emissions estimates within two weeks of such change.
- D. Renewal of this Order, should it be needed, must be requested before this Order expires. If the conditions creating the emergency remain substantially unchanged, a renewal request should be submitted at least 14 calendar days before this Order expires. If the conditions change, a renewal request should be submitted at least 21 calendar days before this Order expires.

Issued in Washington, D.C. at 5:45 PM this 13th day of December, 2017.



Rick Perry
Secretary of Energy

From: Michael Regulinski
To: Batra, Rakesh
Subject: Re: [External] FW: OE 202c Wed 12/13
Date: Wednesday, December 13, 2017 6:44:41 PM

Thanks Rakesh.

Sent from my iPhone
Please excuse weird auto corrections

On Dec 13, 2017, at 6:40 PM, Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov> wrote:

Attached is the signed Order No. 202-18-2. We will update the website tomorrow.

Thanks
Rakesh

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

From: Konieczny, Katherine
To: Batra, Rakesh
Subject: 202(c)
Date: Wednesday, December 13, 2017 7:55:17 PM

Has the order been signed? (b) (5)

Thanks,
Kathy

From: Pincus, Steven
To: [Batra, Rakesh](#); [Glazer, Craig](#); [Michael Regulinski](#); sanjay.narayan@sierraclub.org; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com
Cc: [Jereza, Catherine](#)
Subject: RE: OE 202c Wed 12/13
Date: Thursday, December 14, 2017 9:33:56 AM

The order references a Summary of Findings. Has that been issued yet?

From: Batra, Rakesh [<mailto:Rakesh.Batra@Hq.Doe.Gov>]
Sent: Wednesday, December 13, 2017 6:39 PM
To: Pincus, Steven; Glazer, Craig; Michael Regulinski; sanjay.narayan@sierraclub.org; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com
Cc: Jereza, Catherine
Subject: FW: OE 202c Wed 12/13

External Email! Think before clicking links or attachments.

Attached is the signed Order No. 202-18-2. We will update the website tomorrow.
Thanks
Rakesh

From: Bowie, America
To: Batra, Rakesh
Subject: Summary of Findings
Date: Thursday, December 14, 2017 12:03:53 PM
Attachments: EXEC-2017-008921 Summary of Findings.pdf

Summary of Findings Department of Energy Order No. 202-18-2

December 13, 2017

Section 202(c) of the Federal Power Act (FPA) (codified at 16 U.S.C. § 824a(c)), through section 301(b) of the Department of Energy Organization Act (codified at 42 U.S.C. § 7151(b)), authorizes the Secretary of Energy, upon finding “that an emergency exists by reason of a sudden increase in the demand for electric energy, or a shortage of electric energy or of facilities for the generation or transmission of electric energy, or of fuel or water for generating facilities, or other causes,” to issue an order “requir[ing] . . . such temporary connections of facilities and such generation, delivery, interchange, or transmission of electric energy as in [the Secretary’s] judgment will best meet the emergency and serve the public interest.” 16 U.S.C. § 824a(c)(1). If the order “may result in a conflict with [an] environmental law or regulation,” then the Secretary must “ensure that such order requires generation, delivery, interchange, or transmission of electric energy only during hours necessary to meet the emergency and serve the public interest, and, to the maximum extent practicable, is consistent with any applicable . . . environmental law or regulation and minimizes any adverse environmental impacts.” *Id.* § 824a(c)(2). Orders issued under FPA section 202(c) “that may result in a conflict with [an] environmental law or regulation” expire 90 days after they are issued, but the Secretary “may renew or reissue such order[s] . . . for subsequent periods, not to exceed 90 days for each period, as [the Secretary] determines necessary to meet the emergency and serve the public interest.” *Id.* § 824a(c)(4)(A).

This Summary of Findings incorporates by reference the procedural history, section 202(c) analysis, and environmental analysis in DOE Order Nos. 202-17-2, 202-17-4, and 202-18-1, and the September 14, 2017 and November 6, 2017 Summaries of Findings.

On November 29, 2017, PJM Interconnection, L.L.C. (PJM) filed a Renewal Application with DOE. The filing incorporated by reference all reports required by Order No. 202-17-4, which are included in the docket of this Order. Citing a Virginia Electric and Power Company (Dominion) report dated October 12, 2017 (Report on Yorktown Units 1 and 2 Revised Construction Schedule (Oct. 12, 2017)), PJM stated that construction of the Project is now estimated to be completed May 12, 2019. Renewal Application at 2 n.4 & 4. The October 12 report explained that certain restrictions on construction, implemented by the Virginia Marine Resources Commission and U.S. Army Corps of Engineers, “are imposed to minimize impacts of the installation of transmission tower foundations on anadromous fish species.” Report on Yorktown Units 1 and 2 Revised Construction Schedule at 3. According to Dominion, Virginia Marine Resources Commission restrictions prevent installation of transmission tower foundations in the shallow waters of the James River from February 15 to June 15, and the U.S. Army

Summary of Findings for Department of Energy Order No. 202-18-2

Corps of Engineers prohibits installation of the foundations in the deep waters of that river from February 15 to November 15. *Id.* Consequently, Dominion declared the need to extend the construction schedule to May 2019, adding that “[t]he construction schedule will likely change again.” *Id.* at 4. Also emphasizing that the conditions creating the cited emergency are substantially unchanged, PJM underscored that transmission outages will continue to be required if Project construction is to be completed expeditiously. *See* Renewal Application at 4-5.

Between September 14, 2017 and December 13, 2017, the time period during which Order No. 202-17-4 was in effect, the Yorktown Units were in test operation for a total of just over three and a half hours. Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-17-4, Attachment 1 (Dec. 1, 2017). The “reliability test runs” took place during the afternoon and evening of October 25, and “included running sub-systems and firing of ignitors and warm up burners to functionally test and verify operation for start-up.” Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-17-4, at 2 (Nov. 9, 2017). The testing did not generate power for the grid, but was performed “as part of a quarterly effort to ensure reliability of these two units when called upon by PJM to provide grid stability.” *Id.* Yorktown Units 1 and 2 did not operate over the last 90 days to address a reliability issue.

Discussion

Order Nos. 202-17-2, 202-17-4, and 202-18-2 direct operation of Yorktown Units 1 and 2 as needed to address reliability issues, subject to a dispatch methodology submitted to the Department for review. Dominion has reported operation of Yorktown Units 1 and/or 2 for all or part of 19 days during the pendency of Order Nos. 202-17-2 and 202-17-4. Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-17-4, Attachment 1 (Dec. 1, 2017), included in the docket of this Order.

In the November 29 Renewal Application, PJM sought to clarify how it is implementing ordering paragraphs A and B of Order No. 202-17-4, which require that (1) “Consistent with good utility practice, PJM and Dominion shall exhaust all reasonably and practically available resources, including demand response and behind-the-meter generation resources, prior to operating Yorktown Unit 1 or Yorktown Unit 2,” and (2) “Dominion shall continue to comply with the dispatch methodology submitted by PJM on June 27, 2017.” PJM explained that “if demand response and/or behind-the-meter resources would not provide needed reactive support, or otherwise not lessen the need to operate the Yorktown units for reliability, such resources would not be ‘reasonably and practically available’ and operating the resources would not be consistent with the [terms of Order No. 202-17-4].” Renewal Application at 3 n.10. DOE concurs with this interpretation, and adjustments have been made to the ordering paragraphs of Order No. 202-18-2 to reflect that view.

Summary of Findings for Department of Energy Order No. 202-18-2

In considering renewal or reissuance of an order under FPA section 202(c) that may conflict with an environmental law or regulation, DOE is required to “consult with the primary Federal agency with expertise in the environmental interest protected by such law or regulation” and to include “conditions as such Federal agency determines necessary . . . to the extent practicable.” 16 U.S.C. § 824a(c)(4). The Environmental Protection Agency (EPA) is the primary federal agency in this case with expertise in the protected environmental interest, and the Department consulted with EPA after receiving the Renewal Application. Email from Acting Assistant Administrator Larry Starfield, Office of Enforcement and Compliance Assurance, to Bruce Walker, Assistant Secretary for Electricity Delivery and Energy Reliability (Dec. 11, 2017), included in the docket of this Order. After consulting with EPA, and consistent with that consultation, the Department found that the only appropriate short-term emissions limitation on Yorktown Units 1 and 2 would be to curtail operating hours to the maximum extent practical for reliability purposes.

Pursuant to the National Environmental Policy Act of 1969, the Department has determined that issuance of this Order fits within the category of actions included in Categorical Exclusion (CX) B4.4 and otherwise meets the requirements for application of a CX. The Order fits within the category of actions because it authorizes “[p]ower marketing services and power management activities (including, but not limited to, storage, load shaping and balancing, seasonal exchanges, and other similar activities), provided that the operations of generating projects would remain within normal operating limits.” Records of Categorical Exclusion Determination, Order No. 202-18-2, December 7, 2017, included in the docket of this Order; 10 C.F.R. part 1021, subpt. D, app. B, para. B4.4.

For the reasons stated above, the Secretary of Energy finds that an emergency exists threatening imminent electric energy shortages, and that this Order is necessary to address the emergency and serve the public interest in the North Hampton Roads area. The limitations on operation set forth in Order No. 202-18-2 and outlined above are, to the maximum extent practicable, consistent with applicable environmental laws or regulation and minimize any adverse environmental impacts, and the reporting requirements for operations and estimated emissions ensure transparency of implementation.

From: Pincus, Steven
To: Batra, Rakesh
Subject: RE: OE 202c Wed 12/13
Date: Thursday, December 14, 2017 12:11:27 PM

Thank you.

From: Batra, Rakesh [mailto:Rakesh.Batra@Hq.Doe.Gov]
Sent: Thursday, December 14, 2017 12:09 PM
To: Pincus, Steven; Glazer, Craig; Michael Regulinski; sanjay.narayan@sierraclub.org; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com; kfinto@hunton.com
Cc: Jereza, Catherine; Konieczny, Katherine; Drake, Christopher; Bittner, Kathy (CONTR)
Subject: RE: OE 202c Wed 12/13

External Email! Think before clicking links or attachments.

Please find attached Summary of Findings for the Order No. 20-18-2, issued yesterday.

Thanks,
Rakesh

From: Batra, Rakesh
Sent: Wednesday, December 13, 2017 6:39 PM
To: Pincus, Steven <Steven.Pincus@pjm.com>; Glazer, Craig <Craig.Glazer@pjm.com>; Michael Regulinski <michael.regulinski@dominionenergy.com>; sanjay.narayan@sierraclub.org; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com <sanjay.narayan@sierraclub.org>; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c Wed 12/13

Attached is the signed Order No. 202-18-2. We will update the website tomorrow.

Thanks
Rakesh

From: [Konieczny, Katherine](#)
To: [Batra, Rakesh](#)
Subject: RE: OE 202c Wed 12/13
Date: Thursday, December 14, 2017 12:14:25 PM

Thanks for copying us.

From: Batra, Rakesh
Sent: Thursday, December 14, 2017 12:09 PM
To: Pincus, Steven ; Glazer, Craig ; Michael Regulinski ; sanjay.narayan@sierraclub.org ; casey.roberts@sierraclub.org ; bridget.lee@sierraclub.org ; kfinto@hunton.com ; kfinto@hunton.com
Cc: Jereza, Catherine ; Konieczny, Katherine ; Drake, Christopher ; Bittner, Kathy (CONTR)
Subject: RE: OE 202c Wed 12/13
Please find attached Summary of Findings for the Order No. 20-18-2, issued yesterday.
Thanks,
Rakesh

From: Batra, Rakesh
Sent: Wednesday, December 13, 2017 6:39 PM
To: Pincus, Steven <Steven.Pincus@pjm.com>; Glazer, Craig <Craig.Glazer@pjm.com>; Michael Regulinski <michael.regulinski@dominionenergy.com>; sanjay.narayan@sierraclub.org; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com <sanjay.narayan@sierraclub.org>; casey.roberts@sierraclub.org; bridget.lee@sierraclub.org; kfinto@hunton.com
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c Wed 12/13

Attached is the signed Order No. 202-18-2. We will update the website tomorrow.
Thanks
Rakesh

From: Michael Regulinski
To: Batra, Rakesh
Subject: RE: [External] RE: OE 202c Wed 12/13
Date: Thursday, December 14, 2017 12:22:28 PM

Thanks!

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
teline: 738-2794
P: (804) 819-2794
C: (b) (6)

michael.regulinski@dominionenergy.com

From: Batra, Rakesh [mailto:Rakesh.Batra@Hq.Doe.Gov]
Sent: Thursday, December 14, 2017 12:10 PM
To: Pincus, Steven; Glazer, Craig; Michael Regulinski (Services - 6); sanjay.narayan@sierracub.org; casey.roberts@sierracub.org; bridget.lee@sierracub.org; kfinto@hunton.com; kfinto@hunton.com
Cc: Jereza, Catherine; Konieczny, Katherine; Drake, Christopher; Bittner, Kathy (CONTR)
Subject: [External] RE: OE 202c Wed 12/13
Please find attached Summary of Findings for the Order No. 20-18-2, issued yesterday.
Thanks,
Rakesh

From: Batra, Rakesh
Sent: Wednesday, December 13, 2017 6:39 PM
To: Pincus, Steven <Steven.Pincus@pjm.com>; Glazer, Craig <Craig.Glazer@pjm.com>; Michael Regulinski <michael.regulinski@dominionenergy.com>; sanjay.narayan@sierracub.org; casey.roberts@sierracub.org; bridget.lee@sierracub.org; kfinto@hunton.com <sanjay.narayan@sierracub.org>; casey.roberts@sierracub.org; bridget.lee@sierracub.org; kfinto@hunton.com
Cc: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Subject: FW: OE 202c Wed 12/13

Attached is the signed Order No. 202-18-2. We will update the website tomorrow.

Thanks
Rakesh

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

From: Drake, Christopher
To: Batra, Rakesh; Fickel, Louise
Cc: Konieczny, Katherine; Mills, Brian; Rosenbaum, Matthew
Subject: RE: PJM OE 202c related
Date: Thursday, December 14, 2017 1:41:32 PM

All of these documents, plus the EPA's 12-11 consultation email, have already been sent to Louise, and the November 29 renewal application has already been posted.

From: Batra, Rakesh
Sent: Thursday, December 14, 2017 1:36 PM
To: Fickel, Louise
Cc: Konieczny, Katherine ; Mills, Brian ; Drake, Christopher ; Rosenbaum, Matthew
Subject: PJM OE 202c related
Importance: High

Louise:

Please find attached PJM 202(c) Order No. 202-18-2 related documents for web posting.

Kathy: (b) (5)

Thanks,

Rakesh

From: Fickel, Louise
To: Drake, Christopher; Batra, Rakesh
Cc: Konieczny, Katherine; Mills, Brian; Rosenbaum, Matthew
Subject: RE: PJM OE 202c related
Date: Thursday, December 14, 2017 1:46:14 PM

Thanks, Chris.

I've posted all of the documents on the website, and they should be live shortly.

Louise

From: Drake, Christopher
Sent: Thursday, December 14, 2017 1:42 PM
To: Batra, Rakesh ; Fickel, Louise
Cc: Konieczny, Katherine ; Mills, Brian ; Rosenbaum, Matthew
Subject: RE: PJM OE 202c related

All of these documents, plus the EPA's 12-11 consultation email, have already been sent to Louise, and the November 29 renewal application has already been posted.

From: Batra, Rakesh
Sent: Thursday, December 14, 2017 1:36 PM
To: Fickel, Louise <Louise.Fickel@Hq.Doe.Gov>
Cc: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: PJM OE 202c related
Importance: High

Louise:

Please find attached PJM 202(c) Order No. 202-18-2 related documents for web posting.

Kathy: (b) (5)

Thanks,

Rakesh

From: Pincus, Steven
To: [Michael Regulinski](#); [Batra, Rakesh](#); [Glazer, Craig](#); kfinto@hunton.com
Cc: [Jereza, Catherine](#); [Konieczny, Katherine](#); [Drake, Christopher](#); [Rosenbaum, Matthew](#)
Subject: RE: 202(c) Renewal Application
Date: Thursday, December 21, 2017 4:28:29 PM

Rakesh: PJM will do the same. Happy Holidays.

Steven R. Pincus
Associate General Counsel, Office of General Counsel

(610) 666-4370 | C: (b) (6) | Steven.Pincus@pjm.com
PJM Interconnection | 2750 Monroe Blvd. | Audubon, PA 19403

-----Original Message-----

From: Michael Regulinski [<mailto:michael.regulinski@dominionenergy.com>]
Sent: Thursday, December 21, 2017 2:28 PM
To: [Batra, Rakesh](#); [Pincus, Steven](#); [Glazer, Craig](#); kfinto@hunton.com
Cc: [Jereza, Catherine](#); [Konieczny, Katherine](#); [Drake, Christopher](#); [Rosenbaum, Matthew](#)
Subject: RE: 202(c) Renewal Application

External Email ? Think before clicking links or attachments.

Rakish, Dominion will make every effort to meet staff's request. Happy Holidays! Mike

Michael C. Regulinski
Managing General Counsel

Dominion Energy Services, Inc.
teline: 738-2794
P: (804) 819-2794
C: (b) (6)
michael.regulinski@dominionenergy.com

-----Original Message-----

From: [Batra, Rakesh](#) [<mailto:Rakesh.Batra@Hq.Doe.Gov>]
Sent: Thursday, December 21, 2017 1:55 PM
To: [Pincus, Steven](#); [Glazer, Craig](#); [Michael Regulinski \(Services - 6\)](#); kfinto@hunton.com
Cc: [Jereza, Catherine](#); [Konieczny, Katherine](#); [Drake, Christopher](#); [Rosenbaum, Matthew](#)
Subject: [External] 202(c) Renewal Application

PJM/Dominion Team:

Paragraph D of the Order No. 201-18-2 states "Renewal of this Order, should it be needed, must be requested before this Order expires. If the conditions creating the emergency remain substantially unchanged, a renewal request should be submitted at least 14 calendar days before this Order expires. If the conditions change, a renewal request should be submitted at least 21 calendar days before this Order expires."

To process the Order in a timely fashion, the DOE staff requests PJM/Dominion to submit the renewal application case 21 days in advance regardless of whether the conditions change.

Thanks for cooperation.
Rakesh Batra

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From: Smith, Wayne D
To: Batra, Rakesh; Jereza, Catherine; Bowie, America
Cc: Mills, Brian; Rosenbaum, Matthew; Lawrence, Christopher
Subject: RE: 202c
Date: Monday, January 08, 2018 9:54:14 AM

Thank you.

Wayne D. Smith | Director
Office of the Executive Secretariat
U.S. Department of Energy | wayne.smith@hq.doe.gov
(202) 586-6207 | (b) (6) (mobile)

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, January 08, 2018 9:30 AM
To: Smith, Wayne D <Wayne.Smith@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Bowie, America <America.Bowie@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Lawrence, Christopher <Christopher.Lawrence@hq.doe.gov>
Subject: RE: 202c

We received 202 (c) applications from two applicants, PJM/Dominion and GRDA in 2017.
Attached are the PJM/Dominion Original and two renewal applications and GRDA application.

Please let me know if I could be of further assistance.

Thanks,
Rakesh

-----Original Message-----

From: Jereza, Catherine
Sent: Friday, January 05, 2018 5:52 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Lawrence, Christopher <Christopher.Lawrence@hq.doe.gov>
Subject: FW: 202c

(b) (5)

Thanks!
Katie

-----Original Message-----

From: Jereza, Catherine
Sent: Friday, January 05, 2018 5:38 PM
To: Smith, Wayne D <Wayne.Smith@hq.doe.gov>; Bowie, America <America.Bowie@hq.doe.gov>
Subject: 202c

Hi Wayne and America,

Attached is the DOE implementing regulations document, which provides the information required for requesting an order from the Secretary. (b) (5)

Have a great weekend!
Katie

Catherine Jereza
Deputy Assistant Secretary, Transmission Permitting & Technical Assistance
Office of Electricity Delivery & Energy Reliability
U.S. Department of Energy
(o) 202.586.0334
(c)(b) (6)

Shamika Lawrence
Shamika.Lawrence@hq.doe.gov
202.586.4666

**** Please contact Shamika for all meeting and scheduling requests. ****

From: Smith, Wayne D
To: Batra, Rakesh; Jereza, Catherine; Bowie, America
Cc: Mills, Brian; Rosenbaum, Matthew; Lawrence, Christopher
Subject: RE: 202c
Date: Monday, January 08, 2018 11:10:07 AM
Importance: High

Any updates. (b) (5)

From: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Date: Monday, Jan 08, 2018, 9:56 AM
To: Smith, Wayne D <Wayne.Smith@hq.doe.gov>, Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>, Bowie, America <America.Bowie@hq.doe.gov>
Cc: Mills, Brian <Brian.Mills@hq.doe.gov>, Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>, Lawrence, Christopher <Christopher.Lawrence@hq.doe.gov>
Subject: RE: 202c

Below is the link we discussed.

<https://energy.gov/oe/services/electricity-policy-coordination-and-implementation/other-regulatory-efforts/does-use>

Thanks,
Rakesh

-----Original Message-----

From: Smith, Wayne D
Sent: Monday, January 08, 2018 9:54 AM
To: Batra, Rakesh ; Jereza, Catherine ; Bowie, America
Cc: Mills, Brian ; Rosenbaum, Matthew ; Lawrence, Christopher
Subject: RE: 202c

Thank you.

Wayne D. Smith | Director
Office of the Executive Secretariat
U.S. Department of Energy | wayne.smith@hq.doe.gov
(202) 586-6207 | (b) (6) (mobile)

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, January 08, 2018 9:30 AM
To: Smith, Wayne D ; Jereza, Catherine ; Bowie, America
Cc: Mills, Brian ; Rosenbaum, Matthew ; Lawrence, Christopher
Subject: RE: 202c

We received 202 (c) applications from two applicants, PJM/Dominion and GRDA in 2017.
Attached are the PJM/Dominion Original and two renewal applications and GRDA application.

Please let me know if I could be of further assistance.

Thanks,
Rakesh

-----Original Message-----

From: Jereza, Catherine
Sent: Friday, January 05, 2018 5:52 PM
To: Batra, Rakesh ; Mills, Brian ; Rosenbaum, Matthew ; Lawrence, Christopher
Subject: FW: 202c

(b) (5)

Thanks!
Katie

-----Original Message-----

From: Jereza, Catherine
Sent: Friday, January 05, 2018 5:38 PM
To: Smith, Wayne D ; Bowie, America
Subject: 202c

Hi Wayne and America,

Attached is the DOE implementing regulations document, which provides the information required for requesting an order from the Secretary. (b) (5)

Have a great weekend!
Katie

Catherine Jereza
Deputy Assistant Secretary, Transmission Permitting & Technical Assistance
Office of Electricity Delivery & Energy Reliability
U.S. Department of Energy
(o) 202.586.0334
(c) (b) (6)

Shamika Lawrence
Shamika.Lawrence@hq.doe.gov
202.586.4666

**** Please contact Shamika for all meeting and scheduling requests. ****

From: Pincus, Steven
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Michael Regulinski (Services - 6); Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Mars, Jennifer A.; casey.roberts@sierraclub.org
Subject: Order No. 202-18-2 Compliance Filing Re: Report on Dominion Yorktown Units 1 and 2 Operations
Date: Thursday, January 11, 2018 4:40:56 PM
Attachments: DOE Report January 2-8 emission data FINAL.PDF

Dear Secretary Perry:

PJM respectfully submits a report on Yorktown Units 1 and 2 operations in compliance with Order No. 202-18-2.

Please contact me if you have any questions.

Respectfully,

Steven R. Pincus

Associate General Counsel, Office of General Counsel

(610) 666-4370 | C: (b) (6) | Steven.Pincus@pjm.com

PJM Interconnection | 2750 Monroe Blvd. | Audubon, PA 19403



PJM Interconnection, L.L.C.
2750 Monroe Boulevard
Audubon, PA 19403

Steven Pincus
Associate General Counsel
T: (610) 666-4370 | F: (610) 666-8211
Steven.Pincus@pjm.com

January 11, 2018

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-18-2

Dear Secretary Perry:

Pursuant to Order No. 202-18-2 issued on December 13, 2017 (the "Order") by the Secretary of Energy ("Secretary"), PJM Interconnection, L.L.C. ("PJM") and Virginia Electric and Power Company ("Dominion Energy Virginia") respectfully submit the attached air emissions report regarding PJM's dispatch of Yorktown Unit 2 from January 2 through 8, 2018, including the periods needed to startup and ramp down the unit January 1 and January 8. This report is submitted in accordance with the Secretary's directive that every two weeks PJM and Dominion are to "report all dates between December 13, 2017 and March 12, 2018, on which Yorktown Units 1 and/or 2 are operated, and the associated air emissions and water usage data for those dates."¹

In the Order, the Secretary determined "that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation of electric energy." The Secretary found that the issuance of this Order will meet the emergency and serve the public interest as required by Federal Power Act Section 202(c)² In doing so, the Secretary directed Dominion Energy Virginia to operate Yorktown Units 1 and/or 2 as directed by

¹ Order at page 2. As explained below, complete water usage data for the Unit 2 dispatch was not available in time for this report and will be filed once the data is complete.

² Order at page 1.

PJM only as needed to ensure grid reliability for a 90-day period December 13, 2017 and March 12, 2018.³

On January 1, PJM directed Dominion Energy Virginia to have Yorktown Unit 2 available the next day, and Dominion Energy Virginia began the startup process at approximately 20 hundred hours, and the unit was on line and generating power on January 2 at 17 hundred hours. PJM dispatched the unit off line around 11 hundred hours on January 8, and Dominion Energy Virginia determined that in the interests of safety and good operating practice, the unit would continue to run to empty the bunkers of coal. Emptying of the Yorktown coal bunkers is necessary and a standard operating procedure to prevent fires and to prevent the coal from packing and not flowing after sitting dormant for an extended period. That activity took until about 18 hundred hours on January 8.

Attachment 1 to this report is the Yorktown Power Station Bi-Weekly Mass Emissions for December 26 through January 8 that shows the actual runtime and air emissions data. This spreadsheet includes hourly runtime data for Yorktown Unit 2, hourly gross Megawatt (MW) outputs, and raw and calculated data showing air emissions data associated with operations of Yorktown Unit 2.⁴ PJM did not direct the operation of Yorktown Unit 1 during this time period, and Unit 1 did not operate.

The information in Attachment 1 reports Yorktown Unit 2 hourly emissions of PM-10 and SO₂ in pounds per hour and pounds per million BTU, and mercury in pounds per hour and pounds per trillion BTU (Mercury and Air Toxics Standards (MATS) format) for the operating period beginning December 6, 2017 through January 8, 2018. Additionally, Attachment 1 provides Unit 2 hourly emissions of NO_x in pounds per hour, greenhouse gases (as CO₂) in tons per hour, lead in pounds per hour, HCl in pounds per hour, HF in pounds per hour, and CO in pounds per hour. NO_x and SO₂ emissions are based on valid hours of Continuous Emissions Monitoring System (CEMS) data for the period. PM-10 emissions are

³ Order at page 2.

⁴ The Yorktown units can emit pollution while not generating MWs (*e.g.* during standby, startup and shutdown sequences). Thus, Attachment 1 shows the MW output during the period Yorktown Unit 2 provided power to the grid including startup and shutdown processes (January 1 and 8) and it shows the emissions data for operations of Yorktown Unit 2 including times when the unit was not generating power.

based on the emission factor derived from the July 21, 2017 stack test (0.0168 lbs/mmBtu corrected to 0.1143 lbs/mmBtu calculated for PM-10 filterable plus condensable). CO₂ emissions are based on valid CEMS hours for the operating period. All other emissions were calculated using emission factors from AP-42, Fifth Edition, Volume 1, Chapter 1: External Combustion Sources and calculated hourly coal consumption in tons.⁵

This report does not include the intake circulating water usage for Yorktown Unit 2 operations required by the Order. Operation of cooling water pumps extends over a period of time longer than unit operation to facilitate cooling of plant components that support the boiler and turbine. As a general rule cooling water will continue to be pumped until the turbine metal temperature is less than 300 °F. However, sometimes additional cooling water is necessary to complete proper cool down of auxiliary equipment and lubrication fluids after the turbine metal reaches 300 °F, as was the case with the Yorktown Unit 2 operations in January. PJM and Dominion Energy Virginia commit to providing the water usage data as soon as possible after the data is compiled, reviewed, and formatted to provide to DOE.

PJM and Dominion Energy Virginia respectfully submits the information in this report be accepted by the Secretary as compliant with the Order's directives to report all dates on which Yorktown

⁵ Mercury and lead emissions were calculated using AP-42, Table 1.1-18. CO emissions were calculated using emission factors from AP-42, Table 1.1-3. Total HAP metals and individual HAP metals are not provided because MATS Table 2 (40 CFR 63, Subpart UUUUU) provides for compliance with either the PM limit or total non-mercury HAP metals limits or individual HAP metals. Dominion Energy Virginia is providing PM-10 emissions for the purposes of MATS. HCl and HF emissions were calculated using emission factors from AP-42, Table 1.1-15.

The Honorable James Richard Perry
Re: Report on Yorktown Units 1 and 2
January 11, 2018
Page 4

Units 1 and/or 2 are operated December 13, 2017 and March 12, 2018, as well as the associated air emissions associated with their operations.

Respectfully submitted,

/s/ Steven R. Pincus

Associate General Counsel
PJM Interconnection, L.L.C.
955 Jefferson Avenue
Valley Forge Corporate Center
Norristown, PA 19403-2497
Phone: 610-666-4370
Email: pincus@pjm.com

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
120 Tredegar Street, RS-2
Richmond, Virginia 23219
Phone: (804) 819-2794
Email: michael.regulinski@dominionenergy.com

Cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Michael C. Regulinski, Dominion Energy Services, Inc.
Casey Roberts, Sierra Club Environmental Law Program

Attachment 1

Dominion Energy - Yorktown Power Station

Bi-Weekly Mass Emissions

December 26, 2017 through January 8, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Operation (x-xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	SO2 (Lbs/mmBtu)	CO2 (Tons)	CO2 (Tons)	PM10 (Lbs)	PM10 (Lbs/mmBtu)	Lead (Lbs)	Mercury (Lbs)	Mercury (Lbs/Tbtu)	HCl (Lbs)	HF (Lbs)
12-26-2017 00	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 01	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 02	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 03	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 04	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 05	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 06	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 07	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 08	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 09	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 10	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 11	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 12	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 13	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 14	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 15	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 16	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 17	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 18	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 19	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 20	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 21	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 22	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-26-2017 23	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 00	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 01	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 02	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 03	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 04	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 05	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 06	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 07	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 08	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 09	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 10	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 11	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 12	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 13	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 14	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 15	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 16	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 17	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 18	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 19	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 20	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 21	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 22	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-27-2017 23	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 00	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 01	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 02	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 03	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 04	0	0	0.00	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0

Dominion Energy - Yorktown Power Station

Bi-Weekly Mass Emissions

December 26, 2017 through January 8, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	SO2 (Lbs/mmBtu)	CO2 (Tons)	Coal (Tons)	Common Stack						HF (Lbs)
										PM10 (Lbs)	PM10 (Lbs/mmBtu)	Lead (Lbs)	Mercury (Lbs)	Mercury (Lbs/Tbtu)	HCl (Lbs)	
12-28-2017 05	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 06	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 07	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 08	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 09	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 10	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 11	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 12	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 13	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 14	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 15	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 16	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 17	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 18	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 19	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 20	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 21	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 22	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-28-2017 23	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 00	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 01	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 02	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 03	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 04	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 05	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 06	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 07	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 08	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 09	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 10	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 11	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 12	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 13	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 14	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 15	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 16	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 17	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 18	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 19	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 20	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 21	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 22	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-29-2017 23	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 00	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 01	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 02	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 03	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 04	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 05	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 06	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 07	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 08	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 09	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0
12-30-2017 10	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0

Date	Unit 1 Load				Unit 2 Load				Common Stack										
	Date & Hour		Gross MW	(Gross MW)	Operation		Heat Input	NOx	SO2	SO2	CO2	CO2	PM10	PM10	Lead	Mercury	Mercury	HCl	HF
	(xx-xx)	(Hour)			(mmBtu)	(lbs)	(lbs/mmBtu)	(lbs)	(lbs/mmBtu)	(Tons)	(Tons)	(Tons)	(lbs/mmBtu)	(lbs)	(lbs)	(lbs/Tbu)	(lbs)	(lbs)	(lbs)
12-30-2017	11	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	12	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	13	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	14	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	15	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	16	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	17	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	18	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	19	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	20	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	21	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	22	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-30-2017	23	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	00	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	01	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	02	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	03	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	04	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	05	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	06	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	07	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	08	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	09	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	10	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	11	0	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	0
12-31-2017	12	0	0	0	0.00	0.0	0.0	0.0	0	0									

Dominion Energy - Yorktown Power Station

Bi-Weekly Mass Emissions

December 26, 2017 through January 8, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Operation (xx-xx Hour)	Common Stack										HF (lbs)			
				Heat Input (mmBtu)	NOx (lbs)	SO2 (lbs)	SO2 (lbs/mmBtu)	CO2 (Tons)	Coal (Tons)	PM10 (lbs)	PM10 (lbs/mmBtu)	Lead (lbs)	Mercury (lbs)	Mercury (lbs/TBtu)	HCl (lbs)	HF (lbs)	
01-01-2018 17	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-01-2018 18	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-01-2018 19	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-01-2018 20	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-01-2018 21	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-01-2018 22	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-01-2018 23	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 00	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 01	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 02	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 03	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 04	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 05	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 06	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 07	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 08	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 09	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 10	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 11	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 12	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 13	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 14	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 15	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 16	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 17	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 18	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 19	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 20	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 21	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 22	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-02-2018 23	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 01	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 02	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 03	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 04	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 05	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 06	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 07	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 08	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 09	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 10	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 11	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 12	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 13	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 14	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 15	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 16	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 17	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 18	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 19	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 20	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 21	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
01-03-2018 22	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0

Dominion Energy - Yorktown Power Station

81-Weekly Mass Emissions

December 26, 2017 through January 8, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Common Stack													
			Operation (x,xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	SO2 (Lbs/mmBtu)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	PM10 (Lbs/mmBtu)	Lead (Lbs)	Mercury (Lbs)	Mercury (Lbs/Tbu)	HCl (Lbs)	HF (Lbs)
01-03-2018 23	0	144	1.00	1335.1	624.8	2166.3	1.62	137.0	59.19	152.60193	0.1143	0.003778333	0.004414873	3.306772908	63.82948207	7.978685259
01-04-2018 00	0	145	1.00	1341.9	632.0	2187.4	1.63	137.7	53.46	153.37917	0.1143	0.003797577	0.004437359	3.306772908	64.15458167	8.019322709
01-04-2018 01	0	145	1.00	1347.3	644.0	2191.4	1.63	138.2	53.68	153.96639	0.1143	0.003812859	0.004455215	3.306772908	64.412749	8.051593625
01-04-2018 02	0	145	1.00	1349.3	653.1	2195.4	1.63	138.4	53.76	154.22498	0.1143	0.003818519	0.004461829	3.306772908	64.50836553	8.063545817
01-04-2018 03	0	145	1.00	1352.6	654.7	2197.5	1.62	138.8	53.69	154.60218	0.1143	0.003827858	0.004472741	3.306772908	64.66613546	8.083266932
01-04-2018 04	0	145	1.00	1348.1	643.0	2205.2	1.64	138.3	53.71	154.08783	0.1143	0.003831222	0.004475861	3.306772908	64.45099602	8.056574502
01-04-2018 05	0	145	1.00	1353.4	656.4	2197.7	1.62	138.9	53.92	154.69362	0.1143	0.003839122	0.004475386	3.306772908	64.70438247	8.08047809
01-04-2018 06	0	145	1.00	1359.2	648.3	2212.9	1.63	139.5	54.15	155.35656	0.1143	0.003846536	0.004501179	3.306772908	64.94167331	8.134661355
01-04-2018 07	0	145	1.00	1361.2	653.4	2226.4	1.64	139.7	54.23	155.58516	0.1143	0.003851295	0.004501179	3.306772908	64.412749	8.051593625
01-04-2018 08	0	145	1.00	1347.3	650.7	2226.0	1.65	138.2	53.68	153.96639	0.1143	0.003825311	0.004469765	3.306772908	64.62310757	8.077888446
01-04-2018 09	0	144	1.00	1351.7	659.6	2225.8	1.65	138.7	53.85	154.48788	0.1143	0.003825028	0.004469434	3.306772908	64.61832669	8.077290837
01-04-2018 10	0	145	1.00	1351.6	667.7	2208.2	1.63	138.7	53.85	154.48788	0.1143	0.003825028	0.004469434	3.306772908	64.61832669	8.077290837
01-04-2018 11	0	145	1.00	1355.4	658.7	2206.9	1.63	139.1	53.99	154.92222	0.1143	0.003834933	0.004481008	3.306772908	64.8	8.1
01-04-2018 12	0	145	1.00	1355.1	659.9	2207.5	1.63	139.0	53.99	154.86793	0.1143	0.003834933	0.004481008	3.306772908	64.78565737	8.098207171
01-04-2018 13	0	144	1.00	1346.6	655.8	2215.0	1.65	138.2	53.65	153.91638	0.1143	0.003834933	0.004481008	3.306772908	64.37928287	8.047410359
01-04-2018 14	0	144	1.00	1351.5	642.0	2215.0	1.64	138.7	53.84	154.47645	0.1143	0.003810878	0.004469204	3.306772908	64.61354582	8.076995618
01-04-2018 15	0	145	1.00	1351.4	637.9	2231.0	1.65	138.7	53.84	154.46502	0.1143	0.003824462	0.004469773	3.306772908	64.60876494	8.076995618
01-04-2018 16	0	143	1.00	1350.8	680.8	2241.4	1.66	138.6	53.82	154.39644	0.1143	0.003822764	0.004466789	3.306772908	64.58007968	8.072509968
01-04-2018 17	0	143	1.00	1379.3	678.6	2321.8	1.68	141.5	54.95	157.65399	0.1143	0.003903419	0.004561032	3.306772908	65.94262948	8.242826858
01-04-2018 18	0	143	1.00	1388.5	663.7	2349.9	1.69	142.5	55.32	158.70555	0.1143	0.003929453	0.004591454	3.306772908	66.38247012	8.297803765
01-04-2018 19	0	143	1.00	1393.1	667.3	2343.9	1.68	142.9	55.50	159.23133	0.1143	0.003942473	0.004606565	3.306772908	66.60239044	8.325298805
01-04-2018 20	0	144	1.00	1388.2	666.3	2341.7	1.69	142.4	55.31	158.67126	0.1143	0.003928606	0.004590462	3.306772908	66.36812749	8.296015936
01-04-2018 21	0	144	1.00	1389.5	655.8	2323.3	1.67	142.6	55.36	158.81985	0.1143	0.003937285	0.004594761	3.306772908	66.43007888	8.303784861
01-04-2018 22	0	145	1.00	1385.7	649.9	2313.2	1.67	142.2	55.21	158.38551	0.1143	0.003921531	0.004582195	3.306772908	66.24860558	8.281075697
01-04-2018 23	0	145	1.00	1393.9	659.3	2318.5	1.66	143.0	55.53	159.32277	0.1143	0.003944737	0.004609311	3.306772908	66.64063745	8.330079681
01-05-2018 00	0	145	1.00	1380.7	650.3	2306.9	1.67	141.7	55.01	157.81401	0.1143	0.003907381	0.004565661	3.306772908	66.00956175	8.251195219
01-05-2018 01	0	144	1.00	1393.4	647.9	2309.2	1.66	143.0	55.51	159.26562	0.1143	0.003943322	0.004607657	3.306772908	66.61673507	8.327091623
01-05-2018 02	0	145	1.00	1385.1	663.5	2295.3	1.66	142.6	55.39	158.91129	0.1143	0.003934549	0.004597406	3.306772908	66.21992032	8.277490004
01-05-2018 03	0	145	1.00	1346.7	647.8	2224.8	1.65	138.2	53.65	155.92781	0.1143	0.003798709	0.004438681	3.306772908	64.17370518	8.027131444
01-05-2018 04	0	144	1.00	1342.3	632.2	2214.2	1.65	137.7	53.48	153.42489	0.1143	0.003791917	0.004430745	3.306772908	64.05896414	7.986454183
01-05-2018 05	0	144	1.00	1339.9	635.1	2220.6	1.66	137.5	53.38	153.15057	0.1143	0.003782012	0.004419171	3.306772908	63.80159369	7.984063375
01-05-2018 06	0	144	1.00	1336.4	633.5	2213.9	1.66	137.4	53.34	152.75052	0.1143	0.003785211	0.004425777	3.306772908	63.987251	7.996015936
01-05-2018 07	0	144	1.00	1338.7	635.2	2219.8	1.66	137.3	53.33	153.01341	0.1143	0.00378654	0.004424462	3.306772908	63.96812749	7.996015936
01-05-2018 08	0	144	1.00	1338.4	642.4	2215.6	1.66	137.3	53.32	152.9334	0.1143	0.00378654	0.004424462	3.306772908	63.96812749	7.996015936
01-05-2018 09	0	144	1.00	1338.0	628.9	2205.4	1.65	137.3	53.31	152.9334	0.1143	0.00378654	0.004424462	3.306772908	63.96812749	7.996015936
01-05-2018 10	0	145	1.00	1336.5	634.8	2211.5	1.65	137.1	53.25	152.76195	0.1143	0.00378437	0.004420825	3.306772908	63.91533785	7.996015936
01-05-2018 11	0	145	1.00	1336.9	633.7	2213.3	1.66	137.2	53.26	152.80767	0.1143	0.00378437	0.004420825	3.306772908	63.91533785	7.996015936
01-05-2018 12	0	144	1.00	1344.5	642.7	2219.3	1.65	137.9	53.57	153.67635	0.1143	0.003795879	0.004430084	3.306772908	64.04940239	8.001752929
01-05-2018 13	0	144	1.00	1341.3	643.8	2217.9	1.65	137.6	53.44	153.31059	0.1143	0.003795879	0.004430084	3.306772908	64.04940239	8.001752929
01-05-2018 14	0	144	1.00	1339.7	639.0	2216.4	1.65	137.5	53.37	153.12771	0.1143	0.003795879	0.004430084	3.306772908	64.04940239	8.001752929
01-05-2018 15	0	144	1.00	1343.8	645.0	2226.0	1.66	137.9	53.54	153.59634	0.1143	0.003802954	0.00443641	3.306772908	64.12589641	8.01573705
01-05-2018 16	0	144	1.00	1352.1	643.6	2234.8	1.65	138.7	53.67	154.54503	0.1143	0.003826443	0.004471088	3.306772908	64.24541833	8.036772908
01-05-2018 17	0	144	1.00	1347.4	656.2	2225.6	1.65	138.2	53.40	154.00782	0.1143	0.003813142	0.004455454	3.306772908	64.412749	8.051593625
01-05-2018 18	0	144	1.00	1340.4	646.1	2230.1	1.66	137.5	53.45	153.20772	0.1143	0.003795332	0.00443298	3.306772908	64.08286853	8.010358565
01-05-2018 19	0	144	1.00	1341.6	642.6	2236.5	1.67	137.6	53.45	153.34488	0.1143	0.003795332	0.00443298	3.306772908	64.08286853	8.010358565
01-05-2018 20	0	144	1.00	1341.6	644.1	2244.1	1.67	138.0	53.57	153.68778	0.1143	0.0038065218	0.004460506	3.306772908	64.28366534	8.035458167
01-05-2018 21	0	144	1.00	1348.9	644.8	2247.5	1.67	138.4	53.74	154.17927	0.1143	0.003817387	0.004460506	3.306772908	64.48924303	8.061155378
01-05-2018 22	0	144	1.00	1349.4	638.3	2247.9	1.67	138.3	53.76	154.29642	0.1143	0.003817387	0.004460506	3.306772908	64.48924303	8.061155378
01-05-2018 23	0	144	1.00	1348.1	639.0	2251.2	1.67	138.3	53.71	154.08783	0.1143	0.003817387	0.004460506	3.306772908	64.48924303	8.061155378
01-06-2018 00	0	144	1.00	1347.1	635.8	2251.5	1.67	138.2	53.67	153.97353	0.1143	0.003817387	0.004460506	3.306772908	64.48924303	8.061155378
01-06-2018 01	0	144	1.00	1348.4	641.8	2253.4	1.67	138.3	53.72	154.12212	0.1143	0.003817387	0.004460506			

Dominion Energy - Yorktown Power Station

Bi-Weekly Mass Emissions

December 26, 2017 through January 6, 2018

Date & Hour		Unit 1 Load (Gross MW)		Unit 2 Load (Gross MW)		Common Stack										Mercury		Mercury		HCl		HF							
		Operation (x xx Hour)		Heat Input (mmBtu)		NOx (Lbs)		SO ₂ (Lbs)		SO ₂ (Lbs/mmBtu)		CO ₂ (Tons)		Coal (Tons)		PM10 (Lbs)		PM10 (Lbs/mmBtu)		Lead (Lbs)		Mercury (Lbs)		Mercury (Lbs/Tbu)		HCl (Lbs)		HF (Lbs)	
01-06-2018 05	0	143	1.00	1348.6	637.9	2254.9	1.67	138.4	53.73	154.14498	0.1143	0.003815538	0.004459514	3.306772908	64.4749004	8.05936255	3.306772908	64.60876494	8.076095618	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 06	0	143	1.00	1351.4	639.2	2268.7	1.68	138.7	53.84	154.45502	0.1143	0.003824462	0.004467797	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 07	0	143	1.00	1350.5	632.0	2273.5	1.68	138.6	53.80	154.36215	0.1143	0.003818519	0.004461829	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 08	0	144	1.00	1349.3	622.0	2279.8	1.69	137.9	53.76	154.22499	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 09	0	143	1.00	1344.2	645.2	2273.5	1.69	137.9	53.55	153.64206	0.1143	0.003826161	0.004470757	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 10	0	144	1.00	1352.0	638.1	2258.1	1.68	138.0	53.57	154.5336	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 11	0	144	1.00	1344.7	625.3	2260.0	1.68	137.9	53.53	153.69921	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 12	0	144	1.00	1343.7	626.2	2272.3	1.69	137.9	53.53	153.58491	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 13	0	144	1.00	1358.2	626.1	2301.3	1.69	139.4	54.11	155.24226	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 14	0	143	1.00	1342.6	629.7	2318.1	1.73	137.7	53.49	153.45918	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 15	0	143	1.00	1341.9	632.0	2277.6	1.73	137.7	53.49	153.37917	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 16	0	144	1.00	1349.4	626.1	2322.4	1.72	138.4	53.76	154.76222	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 17	0	143	1.00	1343.5	630.1	2302.3	1.71	137.8	53.94	154.65205	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 18	0	143	1.00	1348.1	625.5	2312.6	1.72	138.3	53.71	154.08783	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 19	0	143	1.00	1348.0	622.8	2308.8	1.71	138.3	53.71	154.0764	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 20	0	143	1.00	1352.3	630.2	2307.4	1.71	138.8	53.88	154.57899	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 21	0	143	1.00	1352.1	616.6	2312.9	1.71	138.7	53.87	154.54503	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 22	0	144	1.00	1351.6	618.5	2317.4	1.71	138.7	53.85	154.48788	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-06-2018 23	0	144	1.00	1353.1	630.5	2332.9	1.72	138.8	53.91	155.45933	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-07-2018 01	0	145	1.00	1359.8	632.3	2335.3	1.72	139.5	54.22	155.50087	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-07-2018 02	0	144	1.00	1360.9	649.1	2325.3	1.71	139.6	54.22	155.03988	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-07-2018 03	0	144	1.00	1356.6	613.2	2321.6	1.71	139.2	54.05	156.05379	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-07-2018 04	0	143	1.00	1362.3	597.3	2321.4	1.73	137.7	53.48	153.42489	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-07-2018 05	0	144	1.00	1363.3	621.2	2324.4	1.70	140.1	54.39	156.05379	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-07-2018 06	0	145	1.00	1361.7	637.3	2345.7	1.72	139.7	54.25	155.64231	0.1143	0.003804086	0.004444984	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	3.306772908	64.56537305	8.070717131	
01-07-2018 07	0	145	1.00	1365.7	643.2	2399.0	1.71																						

Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions
December 26, 2017 through January 8, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Common Stack														HF (Lbs)
			Operation (xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	SO2 (Lbs/mmBtu)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	PM10 (Lbs/mmBtu)	Lead (Lbs)	Mercury (Lbs)	Mercury (Lbs/Tbu)	HCl (Lbs)		
01-08-2018 11	0	146	1.00	1371.1	584.1	2286.9	1.67	140.7	54.63	156.71673	0.1143	0.003880213	0.004533916	3.306772908	65.55059761	8.193824701	
01-08-2018 12	0	147	1.00	1368.3	587.0	2152.5	1.57	140.4	54.51	156.39669	0.1143	0.003872289	0.004524657	3.306772908	65.41673307	8.177091633	
01-08-2018 13	0	137	1.00	1254.0	491.6	1936.4	1.54	128.7	49.96	143.3322	0.1143	0.00354382	0.004146693	3.306772908	59.95219124	7.494023904	
01-08-2018 14	0	124	1.00	1189.4	437.7	1794.7	1.51	122.0	47.39	135.94842	0.1143	0.003366002	0.003933076	3.306772908	56.86574502	7.107968127	
01-08-2018 15	0	83	1.00	768.5	274.4	1057.6	1.39	78.9	30.62	87.83955	0.1143	0.002174855	0.002541253	3.306772908	36.74103586	4.592629482	
01-08-2018 16	0	47	1.00	520.8	205.2	634.4	1.22	53.4	20.75	59.52744	0.1143	0.001473864	0.001721167	3.306772908	24.89880478	3.112350598	
01-08-2018 17	0	43	1.00	495.3	161.0	574.5	1.16	50.8	19.73	56.61279	0.1143	0.001401699	0.001637845	3.306772908	23.67968127	2.959960159	
01-08-2018 18	0	27	0.67	319.5	105.4	370.5	1.16	32.8	12.73	36.5139208	0.1143	0.00090406	0.001056368	3.306772908	15.27279691	1.909099602	
01-08-2018 19	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	
01-08-2018 20	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	
01-08-2018 21	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	
01-08-2018 22	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	
01-08-2018 23	0	0	0.00	0.0	0.0	0.0	0	0.0	0.00	0	0	0	0	0	0	0	
Bi-Weekly Total Tons				192031.9 mmBtu	44.4	157.6	19702.3	7650.7	10.9746256575	0.00027172520	0.00031750302	4.59040505976	0.57380663247				

Note:

All data are collected and processed in accordance with Part 75.
Data with orange fill are substituted in accordance with Part 75.
Monthly sums may not agree with data published by EPA due to the handling of quarterly and annual totals.

From: Pincus, Steven
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Michael Regulinski (Services - 6); Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Mars, Jennifer A.; casey.roberts@sierraclub.org
Subject: RE: Order No. 202-18-2 Compliance Filing Re: Report on Dominion Yorktown Units 1 and 2 Operations
Date: Thursday, January 25, 2018 4:24:31 PM
Attachments: Dominon Yorktown Report January 2-8 water data January 25, 2018.pdf
DOE Report January 2-8 emission data FINAL.PDF

Dear Secretary Perry:

PJM and Dominion respectfully submit the attached water usage report for PJM's dispatch of Yorktown Unit 2 from January 2 through January 8, 2018, and the periods needed to cool down the plant and associated equipment until January 12, 2018. This report is submitted in compliance with Order No. 202-18-2 and as stated in the Report on Yorktown Unit 2 operations filed by PJM and Dominion Energy Virginia on January 11, 2018 (a copy of the January 11, 2018 Report is attached to this message for your convenience).

Please contact me if you have any questions.

Respectfully,

Steven R. Pincus

Associate General Counsel, Office of General Counsel

(610) 666-4370 | C: (b) (6) | Steven.Pincus@pjm.com

PJM Interconnection | 2750 Monroe Blvd. | Audubon, PA 19403

From: Pincus, Steven
Sent: Thursday, January 11, 2018 4:41 PM
To: 'The.Secretary@hq.doe.gov'; 'Hoffman, Patricia'; 'Catherine.Jereza@HQ.DOE.GOV'; 'Batra, Rakesh'; 'Katherine.Konieczny@HQ.DOE.GOV'
Cc: Michael Regulinski (Services - 6); Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Mars, Jennifer A.; casey.roberts@sierraclub.org
Subject: Order No. 202-18-2 Compliance Filing Re: Report on Dominion Yorktown Units 1 and 2 Operations

Dear Secretary Perry:

PJM respectfully submits a report on Yorktown Units 1 and 2 operations in compliance with Order No. 202-18-2.

Please contact me if you have any questions.

Respectfully,

Steven R. Pincus

Associate General Counsel, Office of General Counsel

(610) 666-4370 | C: (b) (6) | Steven.Pincus@pjm.com

PJM Interconnection | 2750 Monroe Blvd. | Audubon, PA 19403



PJM Interconnection, L.L.C.
2750 Monroe Boulevard
Audubon, PA 19403

Steven Pincus
Associate General Counsel
T: (610) 666-4370 | F: (610) 666-8211
Steven.Pincus@pjm.com

January 25, 2018

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

*Re: Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-18-2
Water Usage Report Associated with Unit 2 Operations Reported to the Secretary on
January 11, 2018*

Dear Secretary Perry:

Pursuant to Order No. 202-18-2 issued on December 13, 2017 (the "Order") by the Secretary of Energy ("Secretary") and as stated in the Report on Yorktown Unit 2 operations submitted to the Secretary on January 11, 2018 (the "January 11 Report"), PJM Interconnection, L.L.C. ("PJM") and Virginia Electric and Power Company ("Dominion Energy Virginia") respectfully submit the attached water usage report regarding PJM's dispatch of Yorktown Unit 2 from January 2 through January 8, 2018, including the periods needed to cool down the plant and associated equipment until January 12. This report is submitted in accordance with the Secretary's directive that every two weeks PJM and Dominion are to "report all dates between December 13, 2017 and March 12, 2018, on which Yorktown Units 1 and/or 2 are operated, and the associated air emissions and water usage data for those dates."¹

The January 11 Report, as reported to the Secretary, is as follows:

On January 1, PJM directed Dominion Energy Virginia to have Yorktown Unit 2 available the next day, and Dominion Energy Virginia began the startup process at

¹ Order at page 2. As explained below, complete water usage data for the Unit 2 dispatch was not available in time for the air emissions report provided in the January 11 Report.

approximately 20 hundred hours, and the unit was on line and generating power on January 2 at about 17 hundred hours. PJM dispatched the unit off line around 11 hundred hours on January 8, and Dominion Energy Virginia determined that in the interests of safety and good operating practice, the unit would continue to run to empty the bunkers of coal. Emptying of the Yorktown coal bunkers is necessary and a standard operating procedure to prevent fires and to prevent the coal from packing and not flowing after sitting dormant for an extended period. That activity took until about 18 hundred hours on January 8.²

As explained in the January 11 Report, additional time was required to compile the water usage data due to operational requirements associated with the cool down of Unit 2's auxiliary equipment and lubrication fluids after the turbine metal reaches 300 °F.³ Thus, the January 11 Report could not include the intake circulating water usage for Yorktown Unit 2 operations and PJM and Dominion Energy Virginia committed to providing this data to the Secretary as soon as possible.

Attachment 1 to this letter is the report concerning the intake circulating water usage for Yorktown Unit 2 operations required by the Order.⁴ PJM and Dominion Energy Virginia respectfully submits the information in this report be accepted by the Secretary as compliant with the Order's directives that every two weeks PJM and Dominion to report all dates on which Yorktown Units 1 and/or 2 are operated between December 13, 2017 and March 12, 2018, as well as the water usage data associated with their operations.

² January 11 Report at page 2.

³ See, January 11 Report at page 3.

⁴ There have been no dispatch operations of Yorktown Unit 1 or Unit 2 from January 11, 2018, to the date of this report.

Respectfully submitted,

/s/ Steven R. Pincus

Steven R. Pincus
Associate General Counsel
PJM Interconnection, L.L.C.
955 Jefferson Avenue
Valley Forge Corporate Center
Norristown, PA 19403-2497
Phone: 610-666-4370
Email: pincus@pjm.com

Michael C. Regulinski
Managing General Counsel
Dominion Energy Services, Inc.
120 Tredegar Street, RS-2
Richmond, Virginia 23219
Phone: (804) 819-2794
Email: michael.regulinski@dominionenergy.com

Cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Michael C. Regulinski, Dominion Energy Services, Inc.
Casey Roberts, Sierra Club Environmental Law Program

ATTACHMENT I

Yorktown Power Station January 2-12 2018 Circulating Water Usage

Unit	On-Line	Off-Line	Days On-Line	Start-up Colling Water Pumps	Tubine Metal Temp < 300 deg	Total Cooling Water Days	Total Water Amount (Mgal)
1	NA	NA	NA	NA	NA	NA	0
Million gallons of Intake Circulating Water through Unit 1							0

Unit	On-Line	Off-Line	Days On-Line	Start-up Cooling Water Pumps	Tubine Metal Temp < 300 deg	Total Cooling Water Days	Total Water Amount (Mgal)
2	1/2/18 17:22	1/8/18 18:41	6.05	12/31/17 12:15	1/12/18 11:00	11.95	1,360
Million gallons of Intake Circulating Water through Unit 2							1,360

Total million gallons through Unit 1 & 2	1,360
--	-------

From: Smith, Wayne D
To: Jereza, Catherine
Cc: Bittner, Kathy (CONTR); Blake-Kennerly, Shena; Bowie, America; Batra, Rakesh
Subject: FW: Order 202c
Date: Wednesday, February 14, 2018 6:51:46 PM
Attachments: image002.jpg
PJM Dominion Order Timeline.xlsx

Good evening Katie,
(b) (5)

Thank you in advance for you and your team's assistance.

All best,

Wayne

Wayne D. Smith | Director

Office of the Executive Secretariat

U.S. Department of Energy | wayne.smith@hq.doe.gov

(202) 586-6207 | (b) (6) (mobile)

From: Blake-Kennerly, Shena

Sent: Tuesday, February 13, 2018 5:04 PM

To: Smith, Wayne D <Wayne.Smith@hq.doe.gov>

Subject: FW: Order 202c

(b) (5) Thanks.

From: Bittner, Kathy (CONTR)

Sent: Tuesday, February 13, 2018 1:54 PM

To: Pitcher, Lisa <Lisa.Pitcher@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena
<Shena.Kennerly@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Subject: RE: Order 202c

Hi Lisa,

(b) (5)

If you have any questions or concerns, please address them to Rakesh Batra, Program Manager, at 6-1283 or Katie Jereza, x 6-0334. They would be able to respond to any inquiry about the 202c process.

Thanks,

Kathy Bittner

Correspondence Specialist

ICF, Contractor for U.S. Department of Energy

Office of Electricity Delivery and Energy Reliability

Phone: (202) 287-5613

Email: kathy.bittner@hq.doe.gov

From: Pitcher, Lisa

Sent: Monday, February 12, 2018 12:17 PM

To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>

Subject: RE: Order 202c

Hi Kathy,

Please have the package to DOE/ES by February 26th (b) (5)

Thanks

Lisa

From: Bittner, Kathy (CONTR)

Sent: Monday, February 12, 2018 11:11 AM

To: Pitcher, Lisa <Lisa.Pitcher@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>

Subject: RE: Order 202c

Hi Lisa,

(b) (5)

Thanks,

Kathy Bittner

Correspondence Specialist

ICF, Contractor for U.S. Department of Energy

Office of Electricity Delivery and Energy Reliability

Phone: (202) 287-5613

Email: kathy.bittner@hq.doe.gov

From: Pitcher, Lisa

Sent: Monday, February 12, 2018 10:45 AM

To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>

Subject: Order 202c

Hi Kathy,

(b) (5)

Please have the package to DOE/ES by COB March 2nd (b) (5)

(b) (5)

Thanks

Lisa Pitcher

*U. S. Department of Energy
Office of Executive Secretariat, MA-71
1000 Independence Avenue SW
Washington, DC 20585
(202) 586-8637 office
(202) 586-6936 fax
lisa.pitcher@hq.doe.gov*

Purpose: To order PJM/Dominion, to operate Yorktown Units 1 and 2 to avoid load shedding across the North Hampton Roads area which could impact over half a million people.

No.	PJM/Dominion 202(C) Proceeding/Order Timeline						
	Activity	Title/Name	Due Day	Due Date		Primary POC	Secondary POC
				All Cases			
1	Last Order		Wednesday	13-Dec-17			
2	Emmissions Data Received		Thursday	11-Jan-18	Every 2 weeks	Brian	Brian/Matt
3	Water Data Received				Every 2 weeks	Brian	Brian/Matt
4	Application & Data Received		Tuesday	20-Feb-18		Rakesh Batra	Brian/Kathy/Matt
5	Confirm Receipt and Inform Exec Sec		Tuesday	20-Feb-18		Rakesh Batra	Brian/Kathy/Matt
6	Review Application		Tuesday	27-Feb-18		Rakesh Batra	Brian/Kathy/Matt
7	Review Data		Tuesday	27-Feb-18		Brian	Brian/Matt
8	EPA Consultation Request		Tuesday	27-Feb-18		Brian/ Kathy K	Julie/ Chris Drakes
9	Senior staff Heads Up		Monday	26-Feb-18	by 3:30PM	Rakesh to Kathy B.	Matt to Kathy B.
10	Draft Order		Thursday	1-Mar-18		Kathy K	Rakesh
11	Summary of Findings		Thursday	1-Mar-18		Kathy K	Rakesh
12	Action Memo		Friday	2-Mar-18		Rakesh Batra	Kathy K
13	NEPA Review/CX		Friday	2-Mar-18		Brian/ Kathy K	Julie/ Chris Drakes
14	EPA Consultation Confirmation	Kellie Ortega	Friday	2-Mar-18		Brian/ Kathy K	Julie/ Chris Drakes
15	Briefing principles		March 2 thru March 12 as required			Rakesh Batra/ Brian Mills	Matt Rosenbaum / Brian Mills
16	Concurrence Staff Availability		Check availability of Concurrence staff and available backup staff - Kathy B.			Rakesh Batra/ Matt Rosenbaum	Matt/Brian
17	Concurrence - OE	DAS - Catherine Jereza	Monday	5-Mar-18		Rakesh Batra	Matt
18	Concurrence - OE	AS - Bruce Walker	Monday	5-Mar-18		Rakesh Batra	Jereza, Catherine
19	Concurrence - CI	DAS -Douglas Little	Tuesday	6-Mar-18		Lisa Pitcher	Tanisha Fuller
20	Concurrence - CF	CFO -John Vonglls	Tuesday	6-Mar-18		Lisa Pitcher	Tanisha Fuller
21	Concurrence - PA	Dir - W Turenne	Thursday	8-Mar-18		Lisa Pitcher	Tanisha Fuller
22	Concurrence - GC	Deputy - John Lucas	Thursday	8-Mar-18		Catherine Jereza	Kathy Bittner
23	Concurrence - S3	Under Sec Mark Menezes	Friday	9-Mar-18		Lisa Pitcher	Tanisha Fuller
24	Concurrence - S2	Deputy Sec - Dan Brouillette	Friday	9-Mar-18		Lisa Pitcher	Tanisha Fuller
25	Concurrence - DCOS	Deputy - Dan Wilmont	Friday	9-Mar-18		Lisa Pitcher	Tanisha Fuller
26	Concurrence - COS	Brian McCormack	Friday	9-Mar-18		Lisa Pitcher	Tanisha Fuller
27	Concurrence -S1	Rick Perry	Monday	12-Mar-18		Lisa Pitcher	Tanisha Fuller
28	Next Order Signed		Monday	12-Mar-18			
29	PJM/Dominion/Siera Club Communication	Steven Pincus / M. Regulinski	Monday	12-Mar-18		Rakesh Batra	Kathy Bittner
30	Website Update	Louise Fickel	Monday	12-Mar-18		Rakesh Batra	Kathy Bittner

1. Matthew Rosenbaum and Brian Mills will monitor activity progress every morning, resolve concurrence issues as necessary, and alert Katie of immediately of any delays
- Note: 2. Rakesh Batra - Review technical material, Prepare Memo & Concurrence sheet
3. Brian Mills - Review NEPA material
4. Kathy K - Prepare draft Order and summary of findings
5. We do not need concurrence from EPA. Just confirmation if EPA would like to change any conditions.
6. Rakesh/Brian/Matt from TPTA will standby for briefing principles, if and when required

From: Smith, Wayne D
To: Jereza, Catherine
Cc: Bittner, Kathy (CONTR); Blake-Kennerly, Shena; Bowie, America; Batra, Rakesh
Subject: RE: Order 202c
Date: Thursday, February 15, 2018 8:00:19 AM
Attachments: image001.jpg

Good morning Katie,

Understand all. We'll do whatever it takes to achieve mission success.

All best,
Wayne

From: Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>
Date: Thursday, Feb 15, 2018, 7:56 AM
To: Smith, Wayne D <Wayne.Smith@hq.doe.gov>
Cc: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>, Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>, Bowie, America <America.Bowie@hq.doe.gov>, Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Subject: RE: Order 202c

Hi Wayne – (b) (5), (b) (6)

Thanks for working with us on this!
Katie

From: Smith, Wayne D
Sent: Wednesday, February 14, 2018 6:52 PM
To: Jereza, Catherine
Cc: Bittner, Kathy (CONTR) ; Blake-Kennerly, Shena ; Bowie, America ; Batra, Rakesh
Subject: FW: Order 202c
Good evening Katie,
(b) (5)

Thank you in advance for you and your team's assistance.
All best,

Wayne

Wayne D. Smith | Director

Office of the Executive Secretariat

U.S. Department of Energy | wayne.smith@hq.doe.gov

(202) 586-6207 | (b) (6) (mobile)

From: Blake-Kennerly, Shena

Sent: Tuesday, February 13, 2018 5:04 PM

To: Smith, Wayne D <Wayne.Smith@hq.doe.gov>

Subject: FW: Order 202c

Can we discuss when you return? Thanks.

From: Bittner, Kathy (CONTR)

Sent: Tuesday, February 13, 2018 1:54 PM

To: Pitcher, Lisa <Lisa.Pitcher@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Subject: RE: Order 202c

Hi Lisa,

(b) (5)

If you have any questions or concerns, please address them to Rakesh Batra, Program Manager, at 6-1283 or Katie Jereza, x 6-0334. They would be able to respond to any inquiry about the 202c process.

Thanks,

Kathy Bittner

Correspondence Specialist

ICF, Contractor for U.S. Department of Energy

Office of Electricity Delivery and Energy Reliability

Phone: (202) 287-5613

Email: kathy.bittner@hq.doe.gov

From: Pitcher, Lisa

Sent: Monday, February 12, 2018 12:17 PM

To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>

Subject: RE: Order 202c

Hi Kathy,

Please have the package to DOE/ES

(b)
-(5)

Thanks

Lisa

From: Bittner, Kathy (CONTR)

Sent: Monday, February 12, 2018 11:11 AM

To: Pitcher, Lisa <Lisa.Pitcher@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena

<Shena.Kennerly@hq.doe.gov>

Subject: RE: Order 202c

Hi Lisa,
(b) (5)

Thanks,
Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

From: Pitcher, Lisa

Sent: Monday, February 12, 2018 10:45 AM

To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>

Cc: Bowie, America <America.Bowie@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>

Subject: Order 202c

Hi Kathy,
(b) (5)

Please have the package to DOE/ES

(b)
(5)

Thanks

Lisa Pitcher

U.S. Department of Energy
Office of Executive Secretariat, MA-71
1000 Independence Avenue SW
Washington, DC 20585
(202) 586-8637 office
(202) 586-6936 fax
lisa.pitcher@hq.doe.gov

From: Pincus, Steven
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Michael Regulinski (Services - 6); Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Michael Regulinski (Services - 6); casey.roberts@sierraclub.org; Robinson, Evelyn
Subject: Order No. 202-18-2, PJM Interconnection, L.L.C., Renewal Application Filing
Date: Tuesday, February 20, 2018 2:19:34 PM
Attachments: DOE Order 202-18-2 Renewal Application 2-20-18 Filing Letter Final.pdf

Dear Secretary Perry:

PJM respectfully submits for filing a ninety (90) day Renewal Application in accordance with Section 202(c) of the Federal Power Act, the Department of Energy's Rules of Practice and Procedure and Order No. 202-18-24.

Please contact me if you have any questions.

Thank you for your consideration.

Respectfully,

Steven R. Pincus

Associate General Counsel, Office of General Counsel

(610) 666-4370 | C: (b) (6) | Steven.Pincus@pjm.com

PJM Interconnection | 2750 Monroe Blvd. | Audubon, PA 19403

This e-mail message and any attached files are confidential and are solely for the use of the intended recipient.



PJM Interconnection, L.L.C.
2750 Monroe Boulevard
Audubon, PA 19403

Steven R. Pincus
Associate General Counsel
T: (610) 666-4438 | F: (610) 666-8211
steven.pincus@pjm.com

February 20, 2018

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Order No. 202-18-2 Renewal Application Filing

Dear Secretary Perry:

Pursuant to Section 202(c) of the Federal Power Act (“FPA”),¹ Section 301(b) of the Department of Energy Organization Act,² the Department of Energy’s (“DOE”) Rules of Practice and Procedure³ and Order No. 202-18-2 issued on December 13, 2018 by the Secretary of Energy (“Secretary”) (the “December 13 Order”), PJM Interconnection, L.L.C. (“PJM”) respectfully submits a request for a 90-day renewal of the December 13 Order. PJM incorporates by reference PJM’s initial application submitted on June 13, 2017, and all attachments and appendices thereto (the “June 13 Application”). PJM also incorporates by reference (i) PJM’s renewal applications submitted on November 29, 2017 (the “November 29 Application”), June 13, 2017 (the “June 13 Application”) and August 24, 2017 (the “August24 Application”) and all attachments and appendices thereto (collectively, “Renewal Applications”); and (ii) the various reports to DOE concerning the operations and emission data provided by PJM and Virginia Electric and Power Company (“Dominion Energy Virginia”) referenced below.

¹ 16 U.S.C. § 824a(c).

² 42 U.S.C. § § 7101 and 7151(b).

³ 16 C.F.R. §§ 205.370, 205.371 and 205.372 and 205.373.

I. BACKGROUND

A. The June 13 Application

In the Renewal Applications, PJM stated the need to request renewals of the Order No. 202-17-2 issued on June 16, 2017 (the “June 16 Order”) on a rolling basis until the PJM ordered Regional Transmission Expansion Planning Process (“RTEPP”) Skiffes Creek Transmission Project is placed into service, which was originally anticipated to be completed in 18-20 months once all permits are issued.⁴ In the June 16 Order, the Secretary determined “that an emergency exists in the Commonwealth of Virginia due to a shortage of electric energy, a shortage of facilities for the generation of electric energy, and other causes, and that issuance of this Order will meet the emergency and serve the public interest.”⁵ In doing so, the Secretary directed Dominion Energy Virginia to operate Yorktown Units 1 and 2 as directed by PJM as needed to address reliability issues for the initial 90-day period, June 16, 2017 to September 14, 2017, or any renewal thereof.⁶ The Secretary also directed PJM and Dominion Energy Virginia to develop and implement a dispatch methodology and submit it to the DOE upon implementation.⁷ The dispatch methodology was submitted by PJM on June 27, 2017.

B. The August 24 Application for Renewal of the June 16 Order.

In the August 24 Application, PJM submitted a request for a 90 day renewal of the June 16 Order. PJM requested an order of the Secretary under Section 202 (c) of the FPA which

⁴ On October 12, 2017, PJM and Dominion Energy Virginia submitted a report updating the outage schedule for the Skiffes Creek Transmission Project with an extension of the construction schedule of approximately five and one-half months from December 30, 2018 to May 12, 2019

⁵ June 16 Order, page 1.

⁶ June 16 Order, page 2.

⁷ June 16 Order, page 2.

provides among other things that an emergency continues to exist in the Commonwealth of Virginia due to a shortage of electric energy, a shortage of facilities for the generation of electric energy, and other causes, and that issuance of a renewal order will meet the emergency and serve the public interest for another 90 renewal period (i.e. from September 14, 2017 to December 13, 2017). As a result, the Secretary issued Order No. 202-17-4 (the “September 14 Order”).

In the September 14 Order, the Secretary determined “that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation and transmission of electric energy.”⁸ The Secretary granted PJM’s August 24 Application allowing operation of Yorktown Units 1 and 2, with certain modifications, for an additional 90-day period to expire on December 13, 2017.⁹ The Secretary’s directives required PJM and Dominion to “exhaust all reasonably and practically available resources, including demand response and behind-the-meter generation resources, prior to operating Yorktown Unit 1 and Yorktown Unit 2” consistent with “good utility practices” and in compliance with the dispatch methodology.¹⁰

⁸ September 14 Order page 1

⁹ September 14 Order page 1

¹⁰ September 14 Order, page 2, paragraphs A and B. PJM has a detailed registration process as applied to demand response resources which are serving as capacity resources. PJM would utilize that information in applying this provision recognizing that: (i) the amount of registered demand response resources on the peninsula is limited; and (ii) during the renewal period covered by this application, certain demand response resources are available to PJM only in the summer period during the period. PJM has catalogued behind the meter resources based on data provided by the United States Energy Information Administration (“EIA”), Dominion and other sources. Although behind the meter resources are not subject to PJM’s direction, PJM works with Dominion to seek their assistance pursuant to the existing dispatch methodology. However, the DOE’s directive that PJM and Dominion Energy Virginia exhaust reasonably and practically available demand response and/or behind-the-meter resources applies only if exhausting such resources would lessen the need to operate the Yorktown Units 1 and/or 2 for reliability of the grid consistent with the dispatch methodology, PJM’s Governing Agreements and good utility practices. For example, if demand response and/or behind-the-meter resources would not provide needed reactive support, or otherwise not lessen the need to operate the Yorktown units for reliability, such resources would not be “reasonably

The September 14 Order directed PJM and Dominion Energy Virginia to report every two weeks during the term of the September 14 Order all dates on which Yorktown Units 1 and/or 2 are operated and associated air emissions and water usages for those dates.¹¹ The Secretary also directed reporting in the event the outage schedule or estimates changes from those presented in the August 24 Application. PJM and Dominion Energy Virginia submitted reports on September 28, 2017, August 22, 2017 and November 10, 2017, on the operation of Yorktown Units 1 and/or 2, and a report on October 12, 2017 revising the Skiffs Creek Transmission Project construction schedule and providing associated emission estimates.

The September 14 Order stated that “(i)f the conditions creating the emergency remain substantially unchanged, a renewal request should be submitted at least 14 calendar days before (the September 14 Order) expires.”¹² As conditions creating the emergency remain substantially unchanged, the renewal application was due on November 29, 2017.

C. The November 29 Application for Renewal of the September 14 Order.

As conditions creating the emergency remained substantially unchanged from the date of the issuance of the September 14 Order, PJM submitted a 90 day renewal application (*i.e.*, the November 29 application). In the November 29 Application, PJM requested an order of the Secretary under Section 202 (c) of the FPA which provides among other things that an emergency continues to exist in the Commonwealth of Virginia due to a shortage of electric

and practically available” and operating the resources would not be consistent with the dispatch methodology, PJM’s Governing Agreements and good utility practices.

¹¹ September 14 Order page 2, paragraph C.

¹² September 14 Order page 2, paragraph D.

energy, a shortage of facilities for the generation of electric energy, and other causes, and that issuance of a renewal order will meet the emergency and serve the public interest for another 90 renewal period (*i.e.*, from December 14, 2017 to March 13, 2018). As a result, the Secretary issued the December 13 Order.

In the December 13 Order, the Secretary determined “that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation and transmission of electric energy.”¹³ The Secretary granted PJM’s November 29 Application allowing operation of Yorktown Units 1 and 2, with certain modifications, for an additional 90-day period to expire on March 13, 2017.¹⁴ The Secretary’s directives require PJM and Dominion to “exhaust all reasonably and practically available resources, including demand response and behind-the-meter generation resources, prior to operating Yorktown Unit 1 and Yorktown Unit 2” consistent with “good utility practices” and in compliance with the dispatch methodology.¹⁵

¹³ December 13 Order, page 1.

¹⁴ December 13 Order, page 1.

¹⁵ December 13 Order, page 2, paragraphs A and B. In the Summary of Findings of Department of Energy Order No. 202-18-2, the Secretary concurred with PJM’s interpretation of the implementing paragraphs A and B of the September 14 Order as follows: *In the November 29 Renewal Application, PJM sought to clarify how it is implementing ordering paragraphs A and B of Order No. 202-17-4, which require that (1) “Consistent with good utility practice, PJM and Dominion shall exhaust all reasonably and practically available resources, including demand response and behind-the-meter generation resources, prior to operating Yorktown Unit 1 or Yorktown Unit 2,” and (2) “Dominion shall continue to comply with the dispatch methodology submitted by PJM on June 27, 2017.” PJM explained that “if demand response and/or behind-the-meter resources would not provide needed reactive support, or otherwise not lessen the need to operate the Yorktown units for reliability, such resources would not be ‘reasonably and practically available’ and operating the resources would not be consistent with the [terms of Order No. 202-17-4].” Renewal Application at 3 n.10. DOE concurs with this interpretation, and adjustments have been made to the ordering paragraphs of Order No. 202-18-2 to reflect that view. December 12 Order page 2.*

The December 13 Order directed PJM and Dominion Energy Virginia to report every two weeks during the term of the December 13 Order all dates on which Yorktown Units 1 and/or 2 are operated and associated air emissions and water usages for those dates.¹⁶ The Secretary also directed reporting in the event the outage schedule or estimates changes from those presented in the November 29 Application. PJM and Dominion Energy Virginia submitted a report to the Secretary on January 11, 2018, on the dates Yorktown Units and/or 2 were operated and associated air emissions (the January 11 Report”). Because the intake circulating water usage data for Yorktown Unit 2 operations was not yet available on January 11, 2018, PJM and Dominion Energy Virginia submitted a report on January 25, 2018, reporting to the secretary the water usage data for Yorktown Unit 2 operations on the dates PJM dispatched Yorktown Unit 2 (*i.e.*, January 2 through January 8, 2018).

The December 13 Order stated that “(i)f the conditions creating the emergency remain substantially unchanged, a renewal request should be submitted at least 14 calendar days before (the September 14 Order) expires.”¹⁷ Since the December 13 Order expired on March 13, 2018, PJM respectfully submits this renewal request.

II. RENEWAL REQUEST

As stated in the June 13 Application, the Skiffes Creek Transmission Project was expected to be completed and placed into service approximately 18-20 months after receipt of all applicable permits. With issuance of the U.S. Army Corps of Engineers’ (“Army Corps”) permit

¹⁶ December 13 Order, page 2, paragraph C.

¹⁷ December 13 Order, page 2, paragraph D.

on July 3, 2017, Dominion Energy Virginia started construction of the Skiffes Creek project on July 10, 2017. As reported on October 12, 2017, the Skiffs Creek Transmission Project is scheduled to be completed May 12, 2019.¹⁸

Thus, given the continued extended nature of the emergency, PJM respectfully submits that the emergency continues to exist as set forth in the June 13 Application, and the Renewal Applications and as determined by the Secretary in the June 16 Order, September 14 Order and November 29 Order.

Therefore, PJM respectfully requests that the Secretary grant this renewal application and order the continued operation of Yorktown Units 1 and 2 to alleviate the emergency described in the June 13 Application, and the Renewal Applications prior to the expiration of the current order (*i.e.* March 13, 2017) under Section 202 (c) of the FPA. PJM request the requested renewal order provide as follows:

- (i) that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation and transmission of electric energy and that issuance of a renewal Order will meet the emergency and serve the public interest;
- (ii) from March 14, 2017 to June 11, 2018, Dominion Energy Virginia is directed to operate Yorktown Units 1 and 2 as directed by PJM as needed to maintain grid reliability or for other local area transmission issues;

¹⁸ In accordance with the Secretary's directives, PJM will report on changes to the Skiffes Creek Transmission project construction schedule and revised outage schedules as necessary and appropriate.

- (iii) the limitations on operations ensure, to the maximum extent practicable, consistency with applicable laws and regulations, and the reporting requirements for operations and estimated emissions ensure transparency of implementation;
- (iv) consistent with the dispatch methodology submitted by PJM on June 27, 2017, good utility practice and the PJM Tariff, PJM and Dominion Energy Virginia shall exhaust all reasonably and practically available resources including demand response and identified behind-the-meter generation resources to the extent that such resources address maintenance of grid reliability, prior to operating Yorktown Units 1 and/or 2;¹⁹
- (v) Dominion Energy Virginia shall continue to follow the dispatch methodology submitted by PJM on June 27, 2017; and
- (vi) Every two weeks, PJM and Dominion Energy Virginia shall report all dates on which Yorktown Units 1 and/or 2 are operated as well as the estimated emissions and water usage date for those dates; and
- (vii) In the event that the outage schedule or estimates change from those presented in the renewal application, PJM and/or Dominion Energy Virginia shall also provide updated outages schedules and associated Yorktown Units 1 and 2 emission estimates within 2 weeks of such change.

¹⁹ See Footnote 10.

Honorable James Richard Perry
February 20, 2018
Page 9

Respectfully submitted,

/s/ Steven R. Pincus

Steven R. Pincus
Associate General Counsel
PJM Interconnection, L.L.C.

Craig Glazer
VP, Federal Government Policy
PJM Interconnection, L.L.C.

Cc (via electronic mail): Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Michael C. Regulinski, Dominion Energy Services, Inc.
Casey Roberts, Sierra Club Environmental Law Program

From: [Konieczny, Katherine](#)
To: [Batra, Rakesh](#); [Drake, Christopher](#)
Cc: [Rosenbaum, Matthew](#)
Subject: RE: Can we have the draft Order and Summary of findings please??
Date: Monday, February 26, 2018 2:57:03 PM

Around 5pm.

From: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Date: Monday, Feb 26, 2018, 2:41 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>, Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: [Konieczny, Katherine](#)
To: [Batra, Rakesh](#); [Drake, Christopher](#)
Cc: [Rosenbaum, Matthew](#)
Subject: RE: Can we have the draft Order and Summary of findings please??
Date: Monday, February 26, 2018 4:54:37 PM
Attachments: [DRAFT Order 202-18-3 as of 2-26.docx](#)
[DRAFT Order 202-18-3 Summary of Findings 2-26.docx](#)

The draft materials are attached. Please let us know if you have any questions.

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, February 26, 2018 2:42 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: Konieczny, Katherine
To: Batra, Rakesh; Drake, Christopher
Cc: Rosenbaum, Matthew
Subject: RE: Can we have the draft Order and Summary of findings please??
Date: Tuesday, February 27, 2018 1:59:12 PM
Attachments: DRAFT Order 202-18-3 as of 2-27.docx
DRAFT Order 202-18-3 Summary of Findings 2-27.docx

(b) (5)

-----Original Message-----

From: Konieczny, Katherine
Sent: Monday, February 26, 2018 4:55 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

The draft materials are attached. Please let us know if you have any questions.

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, February 26, 2018 2:42 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: Mills, Brian
To: Batra, Rakesh; Konieczny, Katherine; Garg, Rishi; Drake, Christopher
Cc: Jereza, Catherine; Rosenbaum, Matthew
Subject: 202-18-3 CX
Date: Tuesday, February 27, 2018 4:33:17 PM
Attachments: 02_27_2018_CX_PJM_202-18-3.pdf

Attached.



Department of Energy
Washington, DC 20585

February 27, 2018

RECORDS OF CATEGORICAL EXCLUSION DETERMINATION

Order No. 202-18-3

The National Environmental Policy Act (NEPA) requires federal agencies to prepare Environmental Impact Statements (EISs) for major federal actions significantly affecting the quality of the human environment.

The Department of Energy's (DOE's) regulations that implement NEPA (10 C.F.R. Part 1021) require it to determine whether a proposal requires that an EIS, an Environmental Assessment (EA), or a Categorical Exclusion (CX) be prepared. A CX refers to a category of actions that DOE has determined do not individually or cumulatively have a significant effect on the human environment. As such, DOE need not prepare an EA or an EIS for CX actions.

On June 13, 2017, PJM Interconnection, L.L.C. (PJM), the Regional Transmission Organization (RTO) whose service territory includes the North Hampton Roads area east of Richmond, Virginia, filed a *Request for Emergency Order Pursuant to Section 202(c) of the Federal Power Act* (FPA) with the United States DOE "to preserve the reliability of [the] bulk power electric transmission system in the North Hampton Roads area." The emergency order would require Virginia Electric and Power Company (Dominion Energy Virginia), the public utility serving the area, to operate its two coal-fired units at its Yorktown Power Station (Yorktown Unit 1 and Yorktown Unit 2) to react to electricity reliability emergencies.

On June 16, 2017, the Secretary of Energy, on behalf of the DOE, issued Order No. 202-17-2, determining that an electricity reliability emergency exists in the Commonwealth of Virginia, ordering Dominion Energy Virginia to operate Units 1 and 2 of the Yorktown Power Station from June 16, 2017 to September 14, 2017 only when called upon for electricity reliability emergency issues.

On August 24, 2017, PJM filed a *Request for reissuance of DOE Order No. 202-17-2*, with DOE "to preserve the reliability of the bulk power transmission system in the North Hampton Roads area." Reissuance of *DOE Order No. 202-17-2* would require Dominion Energy Virginia, to operate Yorktown Unit 1 and Yorktown Unit 2 to react to reliability emergencies from September 15, 2017 to December 13, 2017.

On September 14, 2017, the Secretary of Energy, on behalf of the DOE, issued Order No. 202-17-4, determining that an electricity reliability emergency exists in the Commonwealth of Virginia, ordering Dominion Energy Virginia to operate Units 1 and 2 of the Yorktown Power

Station from September 15, 2017 to December 13, 2017 only when called upon for electricity reliability emergency issues.

On November 29, 2017, PJM filed a *Request for reissuance of DOE Order No. 202-17-4*, with DOE “to preserve the reliability of the bulk power transmission system in the North Hampton Roads area.” Reissuance of *DOE Order No. 202-17-4* would require Dominion Energy Virginia, to operate Yorktown Unit 1 and Yorktown Unit 2 to react to reliability emergencies from December 14, 2017 to March 13, 2018.

On December 13, 2017, the Secretary of Energy, on behalf of the DOE, issued Order No. 202-18-2, determining that an electricity reliability emergency exists in the Commonwealth of Virginia, ordering Dominion Energy Virginia to operate Units 1 and 2 of the Yorktown Power Station from December 13, 2017 to March 13, 2018 only when called upon for electricity reliability emergency issues.

On February 20, 2018, PJM filed a *Request for reissuance of DOE Order No. 202-18-2*, with DOE “to preserve the reliability of the bulk power transmission system in the North Hampton Roads area.” Reissuance of *DOE Order No. 202-18-2* would require Dominion Energy Virginia, to operate Yorktown Unit 1 and Yorktown Unit 2 to react to reliability emergencies from March 13, 2018 to June 11, 2018.

PROPOSED ACTION: The DOE proposed Federal action would be the reissuance of DOE Order No. 202-18-2, as DOE Order No. 202-18-3, an emergency order targeted to prevent uncontrolled power disruptions and shedding of critical load in the North Hampton Roads area on the Virginia Peninsula for 90 days.

FPA section 202(c) (2) requires the Secretary of Energy to ensure that any 202(c) order that may result in a conflict with a requirement of any environmental law be limited to the “hours necessary to meet the emergency and serve the public interest, and, to the maximum extent practicable,” be consistent with any applicable environmental law and minimize any adverse environmental impacts.

BACKGROUND: In November 2011, and again in October 2012, Dominion Energy Virginia notified PJM of its plan to deactivate both units, effective December 31, 2014, because the units were not equipped to comply with the Environmental Protection Agency’s (EPA) Mercury and Air Toxics Standards (MATS), 40 C.F.R. part 63 subpart UUUUU.

By letters dated December 14, 2011 and April 11, 2014, PJM notified Dominion Energy Virginia that the deactivation of Yorktown Units 1 and 2 respectively would adversely affect the PJM transmission system absent the installation of certain transmission upgrades necessary to address the reliability impacts. PJM included the required transmission upgrade known as the Skiffes Creek Transmission Project a new 500kV transmission line across the James River as an upgrade.

PJM load flow studies indicate that generation from Yorktown Units 1 and 2 will be needed to prevent the possibility of uncontrolled power disruptions in the North Hampton Roads area or other loss of grid reliability such as the implementation of an automated controlled load shed scheme.

Dominion Energy Virginia developed, an automated controlled load shed scheme known as the Remedial Action Scheme ("RAS") or as the "North Hampton RAS" to address deactivation of the Yorktown Units. The North Hampton RAS" would result in a forced interruption of service to load on the Peninsula. During certain high load conditions, this power interruption could result in power loss effecting over 150,000 customers in the North Hampton Roads^a area of Virginia. In addition to residential customers, hospitals, nursing homes, schools, commercial, industrial, and national defense facilities would be without power during those peak load conditions on the Peninsula.

CX TO BE APPLIED: The proposed action identified above fits within the classes listed in Appendix B to Subpart D, of 10 CFR Part 1021-Categorical exclusions applicable to specific agency actions. Specifically:

B4.4 Power marketing services and activities.

Power marketing services and power management activities (including, but not limited to, storage, load shaping and balancing, seasonal exchanges, and other similar activities), provided that the operations of generating projects would remain within normal operating limits.

REGULATORY REQUIREMENT: The DOE proposed action is the reissuance of DOE Order No. 202-18-2, as DOE Order No. 202-18-3. The DOE Order reissuance will continue the operational limitations described for electricity reliability emergency issues.

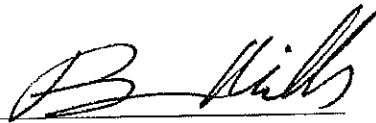
The expected combined operation of Yorktown Units 1 and 2 reacting to electricity reliability emergencies under DOE Order No. 202-18-2 will be well below normal operating capacities and limits of Yorktown Units 1 and 2.

DOE has determined that the proposed action identified above will not have a significant effect on the human environment. Authorizing the proposed action will not (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health including DOE and/or Executive orders; (2) require siting of new facilities or expansion of existing facilities; (3) disturb hazardous substances, pollutants or contaminants; or (4) adversely affect environmentally sensitive resources.

DETERMINATION: Based on my review of the above information concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class of actions, other regulatory

^a The North Hampton Roads load area includes the following: Charles City County, James City County, York County, Williamsburg, Yorktown, Newport News, Poquoson, Hampton, Essex County, King William County, King and Queen County, Middlesex County, Mathews County, Gloucester County, the City of West Point, King George County, Westmoreland County, Northumberland County, Richmond County, Lancaster County, and the City of Colonial Beach.

requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

Signature: 
Brian Mills
NEPA Compliance Officer
Office of Electricity Delivery
and Energy Reliability

Date: February 27, 2018

From: Bittner, Kathy (CONTR)
To: Batra, Rakesh
Cc: Rosenbaum, Matthew
Subject: RE: Can we have the draft Order and Summary of findings please??
Date: Wednesday, February 28, 2018 8:37:23 AM
Attachments: 2018-001014 - Action Memo 2.28.docx
Importance: High

Rakesh,

(b) (5)

Please let me know as soon as possible.

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Batra, Rakesh
Sent: Tuesday, February 27, 2018 3:49 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: FW: Can we have the draft Order and Summary of findings please??

FYI. All documents attached (b) (5)

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Tuesday, February 27, 2018 1:59 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

(b) (5)

(b) (5)

-----Original Message-----

From: Konieczny, Katherine

Sent: Monday, February 26, 2018 4:55 PM

To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: RE: Can we have the draft Order and Summary of findings please??

The draft materials are attached. Please let us know if you have any questions.

-----Original Message-----

From: Batra, Rakesh

Sent: Monday, February 26, 2018 2:42 PM

To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: Bittner, Kathy (CONTR)
To: Batra, Rakesh
Cc: Rosenbaum, Matthew; Mills, Brian
Subject: FW: Can we have the draft Order and Summary of findings please??
Date: Wednesday, February 28, 2018 8:56:27 AM
Attachments: DRAFT Order 202-18-3 Summary of Findings 2-27.docx
Importance: High

Rakesh,
Please see my questions/comments on the attachment.

Please address them as soon as possible.

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Batra, Rakesh
Sent: Tuesday, February 27, 2018 3:49 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: FW: Can we have the draft Order and Summary of findings please??

FYI. All documents attached. (b) (5)

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Tuesday, February 27, 2018 1:59 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

(b) (5)

-----Original Message-----

From: Konieczny, Katherine
Sent: Monday, February 26, 2018 4:55 PM

To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

The draft materials are attached. Please let us know if you have any questions.

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, February 26, 2018 2:42 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: Mills, Brian
To: Bittner, Kathy (CONTR); Batra, Rakesh
Cc: Rosenbaum, Matthew
Subject: RE: Can we have the draft Order and Summary of findings please??
Date: Wednesday, February 28, 2018 9:03:11 AM
Attachments: 02_27_2018_CX_PJM 202-18-3.pdf

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, February 28, 2018 8:56 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>
Subject: FW: Can we have the draft Order and Summary of findings please??
Importance: High

Rakesh,
Please see my questions/comments on the attachment.

Please address them as soon as possible.

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Batra, Rakesh
Sent: Tuesday, February 27, 2018 3:49 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: FW: Can we have the draft Order and Summary of findings please??

FYI. All documents attached. (b) (5)

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Tuesday, February 27, 2018 1:59 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

(b) (5)

(b) (5)

-----Original Message-----

From: Konieczny, Katherine

Sent: Monday, February 26, 2018 4:55 PM

To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: RE: Can we have the draft Order and Summary of findings please??

The draft materials are attached. Please let us know if you have any questions.

-----Original Message-----

From: Batra, Rakesh

Sent: Monday, February 26, 2018 2:42 PM

To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: Bittner, Kathy (CONTR)
To: Batra, Rakesh; Mills, Brian
Cc: Rosenbaum, Matthew
Subject: RE: Can we have the draft Order and Summary of findings please??
Date: Wednesday, February 28, 2018 9:21:18 AM

Rakesh,

(b) (5)

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Batra, Rakesh
Sent: Wednesday, February 28, 2018 9:18 AM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

Dec. 11, 2017. Please see my email sent separately.

(b) (5)

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, February 28, 2018 9:04 AM
To: Mills, Brian <Brian.Mills@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

Thank you Brian.

-----Original Message-----

From: Mills, Brian
Sent: Wednesday, February 28, 2018 9:03 AM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, February 28, 2018 8:56 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>
Subject: FW: Can we have the draft Order and Summary of findings please??
Importance: High

Rakesh,

Please see my questions/comments on the attachment.

Please address them as soon as possible.

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Batra, Rakesh
Sent: Tuesday, February 27, 2018 3:49 PM
To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: FW: Can we have the draft Order and Summary of findings please??

FYI. All documents attached. (b) (5)

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Tuesday, February 27, 2018 1:59 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

(b) (5)

-----Original Message-----

From: Konieczny, Katherine
Sent: Monday, February 26, 2018 4:55 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

The draft materials are attached. Please let us know if you have any questions.

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, February 26, 2018 2:42 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher

<Christopher.Drake@hq.doe.gov>

Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: Konieczny, Katherine
To: Batra, Rakesh; Drake, Christopher
Cc: Bittner, Kathy (CONTR)
Subject: RE: PJM OE 202c related
Date: Wednesday, February 28, 2018 9:34:19 AM

Good morning, all,
(b) (5)

From: Batra, Rakesh
Sent: Wednesday, February 28, 2018 9:16 AM
To: Konieczny, Katherine ; Drake, Christopher
Cc: Bittner, Kathy (CONTR)
Subject: FW: PJM OE 202c related
Importance: High
Kathy K:
(b) (5)

Rakesh

From: Batra, Rakesh
Sent: Thursday, December 14, 2017 1:36 PM
To: Fickel, Louise <Louise.Fickel@Hq.Doe.Gov>
Cc: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: PJM OE 202c related
Importance: High
Louise:
Please find attached PJM 202(c) Order No. 202-18-2 related documents for web posting.
Kathy: (b) (5)
Thanks,
Rakesh

From: Bittner, Kathy (CONTR)
To: Batra, Rakesh
Subject: 2018-001014 - Review of 202c Action Memo
Date: Wednesday, February 28, 2018 10:09:10 AM
Attachments: 2018-001014 - Action Memo 2.28.docx
Importance: High

Rakesh,

(b) (5)

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Bittner, Kathy (CONTR)
Sent: Wednesday, February 28, 2018 8:37 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??
Importance: High

Rakesh,

(b) (5)

Please let me know as soon as possible.

Thanks,

Kathy Bittner
Correspondence Specialist
ICF, Contractor for U.S. Department of Energy
Office of Electricity Delivery and Energy Reliability
Phone: (202) 287-5613
Email: kathy.bittner@hq.doe.gov

-----Original Message-----

From: Batra, Rakesh
Sent: Tuesday, February 27, 2018 3:49 PM

To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: FW: Can we have the draft Order and Summary of findings please??

FYI. All documents attached. (b) (5)

Thanks,
Rakesh

-----Original Message-----

From: Konieczny, Katherine
Sent: Tuesday, February 27, 2018 1:59 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

(b) (5)

-----Original Message-----

From: Konieczny, Katherine
Sent: Monday, February 26, 2018 4:55 PM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Can we have the draft Order and Summary of findings please??

The draft materials are attached. Please let us know if you have any questions.

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, February 26, 2018 2:42 PM
To: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: Can we have the draft Order and Summary of findings please??

When shall we expect it?

Rakesh

From: Drake, Christopher
To: Batra, Rakesh; Rosenbaum, Matthew
Cc: Konieczny, Katherine
Subject: RE: Tomorrow's 202(c) Order
Date: Monday, March 12, 2018 11:42:30 AM

Rakesh & Matt -

(b) (5)

-----Original Message-----

From: Drake, Christopher
Sent: Monday, March 12, 2018 11:27 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Tomorrow's 202(c) Order

OK. Thanks for the update. (b) (5)

-----Original Message-----

From: Batra, Rakesh
Sent: Monday, March 12, 2018 11:25 AM
To: Drake, Christopher <Christopher.Drake@hq.doe.gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>
Cc: Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Subject: RE: Tomorrow's 202(c) Order

It's on its way to S2.

-----Original Message-----

From: Drake, Christopher
Sent: Monday, March 12, 2018 11:23 AM
To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>
Cc: Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>
Subject: Tomorrow's 202(c) Order

Rakesh & Matt,

(b) (5)

Please let us know if you need anything further from us to ensure that the deadline is met.

Thanks,
Chris

Chris Drake
Attorney-Adviser
U.S. Department of Energy, Office of General Counsel
Office of Electricity & Fossil Energy (GC-76)
Forrestal North, Room 6B-256
Tel. 202.586.2919
Christopher.Drake@hq.doe.gov

From: Drake, Christopher
To: Fickel, Louise; Batra, Rakesh; Minnick, Debra B. (CONTR); Mills, Brian; Rosenbaum, Matthew; Jereza, Catherine; Konieczny, Katherine
Subject: RE: 202C (2018-001014)
Date: Tuesday, March 13, 2018 5:31:41 PM

Excellent – thank you, Louise!

From: Fickel, Louise

Sent: Tuesday, March 13, 2018 5:31 PM

To: Batra, Rakesh ; Minnick, Debra B. (CONTR) ; Mills, Brian ; Rosenbaum, Matthew ; Jereza, Catherine ; Konieczny, Katherine ; Drake, Christopher

Subject: RE: 202C (2018-001014)

The new Order and the CX are both now on the website and should be live shortly.

From: Fickel, Louise

Sent: Tuesday, March 13, 2018 3:50 PM

To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Subject: RE: 202C (2018-001014)

Thanks, Rakesh. I'll let everyone know once these have been posted.

Louise

From: Batra, Rakesh

Sent: Tuesday, March 13, 2018 3:34 PM

To: Fickel, Louise <Louise.Fickel@Hq.Doe.Gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>; Mills, Brian <Brian.Mills@hq.doe.gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>; Drake, Christopher <Christopher.Drake@hq.doe.gov>

Subject: FW: 202C (2018-001014)

Please post this CX, along with the Order.

Thanks

From: Mills, Brian

Sent: Tuesday, March 13, 2018 3:17 PM

To: Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Cc: Le Duc, Edward <Edward.LeDuc@hq.doe.gov>

Subject: RE: 202C (2018-001014)

From: Batra, Rakesh

Sent: Tuesday, March 13, 2018 3:07 PM

To: Mills, Brian <Brian.Mills@hq.doe.gov>

Subject: FW: 202C (2018-001014)

FYI

From: Pitcher, Lisa

Sent: Tuesday, March 13, 2018 3:00 PM

To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Cc: Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>; Bowie, America <America.Bowie@hq.doe.gov>

Subject: RE: 202C (2018-001014)

OE

Please see the attached approval.

Thanks

Lisa

From: Bittner, Kathy (CONTR)

Sent: Monday, March 12, 2018 2:29 PM

To: Bowie, America <America.Bowie@hq.doe.gov>

Cc: Pitcher, Lisa <Lisa.Pitcher@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>; Minnick, Debra B. (CONTR) <Debra.Minnick@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Rosenbaum, Matthew <Matthew.Rosenbaum@hq.doe.gov>

Subject: RE: 202C (2018-001014)

Importance: High

America,

(b) (6)

As with previous packages, would you please email the signed Order to Debra, Katie, Rakesh, Matt and myself? Rakesh or Katie will email it to the appropriate parties.

Please let me know if you have any questions.

Thanks,

Kathy Bittner

Correspondence Specialist

ICF, Contractor for U.S. Department of Energy

Office of Electricity Delivery and Energy Reliability

Phone: (202) 287-5613

Email: kathy.bittner@hq.doe.gov

From: Bowie, America

Sent: Monday, March 12, 2018 10:39 AM

To: Bittner, Kathy (CONTR) <Kathy.Bittner@hq.doe.gov>

Subject: 202C

It's on its way to S2.

From: Michael Regulinski
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Robinson, Evelyn; Pincus, Steven; "Burlew, James M."; "Mars, Jennifer A."; casey.roberts@sierraclub.org; sanjay.narayan@sierraclub.org; Mike Barner; Mohammed Alfayyumi
Subject: DOE Order 202-18-3 Report
Date: Friday, March 16, 2018 2:57:10 PM
Attachments: DOE report Yorktown trans outages 3 16 2018.pdf
PUBLIC Skiffes Creek outages table 031218 tdb emissions MCR Redacted.pdf
CONFIDENTIAL CEII Skiffes Creek outages.zip

Confidential Contains CEII Material

Dear Secretary Perry:

PJM Interconnection, LLC and Virginia Electric and Power Company, dba Dominion Energy Virginia, respectfully submit the following in compliance with Order No. 202-18-3:

1. Report on Yorktown Units 1 and 2 Revised Construction Schedule;
2. Public version of Skiffes Creek outages table (CEII material redacted); and
3. Non-Public version of Skiffes Creek outages table (password protected contains CEII material).

Please contact me if you have any questions.

I will send the password for the CEII file by separate email to Dominion, PJM and DOE personnel only.

Thanks,

Michael C. Regulinski

Managing General Counsel

Dominion Energy Services, Inc.

tieline: 738-2794

P: (804) 819-2794

C: (b) (6)

michael.regulinski@dominionenergy.com

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.



March 16, 2017

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Report on Yorktown Units 1 and 2 Revised Outage Schedule - Order No. 202-18-3

Dear Secretary Perry:

Pursuant to Order No. 202-18-3 (the "Renewal Order") issued March 13, 2018, by the Secretary of Energy ("Secretary"), PJM Interconnection, L.L.C. ("PJM") and Virginia Electric and Power Company ("Dominion Energy Virginia") respectfully submit the attached Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 ("March 2018 Outage Schedule"). This submission is in accordance with the Secretary's directive that PJM and Dominion Energy Virginia provide updated outage schedules and associated Yorktown Units 1 and 2 emission estimates in the event the schedule or emission estimates change from those presented in the PJM Renewal Application Filing dated February 20, 2018 ("Renewal Application") within two weeks of the change.¹

In the Renewal Application, PJM explained that construction of the Skiffes Creek Transmission Project began in July 10 2017 and was expected to take approximately 18-20 months.² As reported on October 12, 2017, the Skiffs Creek Transmission Project was scheduled to be completed May 12, 2019.³ The October 2017 Outage Schedule included a Skiffes Creek construction schedule and planned transmission outage sequence, and Yorktown run and emission estimates. The schedule also provided actual emissions from the Yorktown unit runs as directed by PJM, the current estimated planned

¹ Renewal Order at 2.

² Renewal Application at 6-7.

³ Report on Yorktown Units 1 and 2 Revised Construction Schedule ("October 2017 Outage Schedule").

transmission outage time frames, transmission limiting contingencies, Dominion Zone load thresholds which trigger the need to operate Yorktown Units 1 and/or 2, estimated run time in days, and Dominion Energy Virginia's estimated emissions based on the run time estimates. The Renewal Application explained that PJM and Dominion Energy Virginia would provide DOE with revised construction schedules and estimated emissions.⁴

In the Renewal Order, the DOE determined that an emergency exists due to the shortage of electric energy and the shortage of facilities for the generation and transmission of electric energy.⁵ The Secretary found the issuance of the Renewal Order is necessary to address the emergency and serve the public interest in the North Hampton Roads area.⁶ The Renewal Order also directed PJM and Dominion Energy Virginia to provide an updated outage schedule and associated Yorktown Units 1 and 2 emission estimates in the event the outage schedule or emission estimates change from those presented in the PJM Renewal Application within two weeks of the change.⁷

The attached March 2018 Outage Schedule includes a revised construction schedule and planned transmission outage sequence, and Yorktown run and emission estimates. The March 2018 Outage Schedule extends the October 2017 Outage Schedule by 3 days (from May 12, 2019 to May 15, 2019) for the planned transmission outages associated with Skiffes Creek transmission project that may require Yorktown 1 & 2 units to run. The revised schedule also adds an estimated additional 28 run days for the dispatch of the Yorktown units for reliability. The Skiffes Creek transmission project is currently estimated to be complete by August 21, 2019, but under the revised schedule PJM is not expected to dispatch the units after May 15, 2019.

The planned transmission outages are coordinated between PJM and Dominion Energy Virginia to ensure the reliability of service in the area and to support the Skiffes Creek construction schedule. After numerous consultations between PJM and Dominion Energy Virginia, the construction schedule,

⁴ Renewal Application at 7, footnote 18.

⁵ Renewal Order at 1.

⁶ Renewal Order at 1.

⁷ Renewal Order at 2.

the transmission outage schedule, and the estimated run days were revised due to complications encountered in the construction of the Skiffes Creek transmission project. A one month delay to the Skiffes Creek construction schedule was initially proposed due to a manufacturer's defect in the Y Clevis which holds the wire to the insulator used on the line rebuild sections. A failure of the Y Clevis could result in the wire dropping from the transmission tower. With the manufacturer's help Dominion Energy Virginia identified the defect parts and replaced them, however the work required climbing each structure and replacing this part on all three phases. Also, several additional transmission towers will need to be replaced that were not in the original plan due to deterioration found in the field. These additional construction delays pushed the outages of the 292 and 285 lines to peak loading periods which created operational concerns. Therefore, PJM and Dominion Energy Virginia agreed to rearrange the construction schedule and the outage schedule to minimize the impact of transmission outages of the 285 line during the 2018 summer peak and the 2019 winter peak periods. This resulted in an estimated additional 28 run days for the dispatch of the Yorktown units for reliability and rearranging certain transmission outages. While under the revised schedule PJM is not expected to dispatch the units after May 15, 2019, construction of the Skiffes Creek transmission project has been extended and is currently estimated to be complete by August 21, 2019.

The March 2018 Outage Schedule provides actual emissions from the July 2017, August 2017, and January 2018 Yorktown unit runs. The schedule also shows the current estimated planned transmission outage time frames, transmission limiting contingencies, Dominion Zone load thresholds which trigger the need to operate Yorktown Units 1 and/or 2, estimated run time in days, and Dominion Energy Virginia's estimated emissions for the remainder of the schedule based on the run time estimates.

The construction schedule may change again. PJM and Dominion Energy Virginia will provide an updated outage schedule and associated Yorktown Units 1 and 2 emission estimates in the event the outage schedule or emission estimates changes as directed by the Renewal Order.

REQUEST FOR CEI DESIGNATION

The filing includes the following attachments:

1. Non Public version of Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (password protected containing Critical Energy Infrastructure (“CEII”) material); and

2. Public version of Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (public version with CEII material redacted).

In regard to the Non Public version, PJM and Dominion Energy Virginia respectfully requests the transmission outage and limited contingency information submitted to the DOE be designated as CEII pursuant Federal Power Act (“FPA”) Section 215A(d) and the implementing regulations, 18 C.F.R. Section 388.113.

In Fixing America's Surface Transportation Act (“FAST”) Section 215A(a)(3), CEII is specifically defined as information “designated as critical electric infrastructure information by ... the Secretary of the Department of Energy pursuant to subsection (d).”⁸ Under FPA Section 215A(a)(3), CEII includes information that is submitted to the DOE, and designated as such by DOE.⁹ The regulations define CEII in pertinent part as follows:

“1) Critical electric infrastructure information means information related to critical electric infrastructure ... Provided to the Commission or other Federal agency ... that is designated as critical electric infrastructure information by the Commission or the Secretary of the Department of Energy pursuant to section 215A(d) of the Federal Power Act. Such term includes information that qualifies as critical energy infrastructure information under the Commission's regulations. Critical Electric Infrastructure Information is exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552(b)(3) and shall not be made available by any Federal, State, political subdivision or tribal authority pursuant to any Federal, State, political subdivision or tribal law requiring public disclosure of information or records pursuant to section 215A(d)(1)(A) and (B) of the Federal Power Act.”

2) Critical energy infrastructure information means specific engineering, vulnerability, or detailed design information about ... existing critical infrastructure that:
(i) Relates details about the production, generation, transportation, transmission, or distribution of energy;
(ii) Could be useful to a person in planning an attack on critical infrastructure;
(iii) Is exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552; and

⁸ FAST Act, Pub. L. No. 114-94, section 61,003, 129 Stat. 1312, 1776.

⁹ FAST Act, Pub. L. No. 114-94, section 61,003, 129 Stat. 1312, 1773 (“critical electric infrastructure information means information ... generated by or provided to the Commission or other Federal agency ... that is designated as critical electric infrastructure information by the Commission or the Secretary pursuant to subsection (d)”).

(iv) Does not simply give the general location of the critical infrastructure.”¹⁰

PJM and Dominion Energy Virginia submits the redacted information is CEII because it provides details about the production, generation and transportation of energy, which if publically available could be useful in planning an attack on critical infrastructure in the North Hampton Road area of the Commonwealth of Virginia, namely the electric transmission system.

Respectfully submitted,

/s/ Michael C. Regulinski

Michael C. Regulinski
Managing General Counsel
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Craig Glazer
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cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Katherine Konieczny, U.S. Department of Energy
Sanjay Narayan, Sierra Club Environmental Law Program (Public Version of Outage Schedule)

¹⁰ 18 C.F.R. Section 388.113(c)(1) and (2).

From: Michael Regulinski
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Robinson, Evelyn; Pincus, Steven; Burlew, James M.; Mars, Jennifer A.; Mike Barmer; Mohammed Alfayyumi
Subject: RE: DOE Order 202-18-3 Report
Date: Friday, March 16, 2018 2:58:22 PM

The password for the CEII file is: (b) (6)

Best, Mike

Michael C. Regulinski
 Managing General Counsel
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 tieline: 738-2794
 P: (804) 819-2794
 C: (b) (6)
michael.regulinski@dominionenergy.com

From: Michael Regulinski (Services - 6)
Sent: Friday, March 16, 2018 2:56 PM
To: 'The.Secretary@hq.doe.gov'; 'Hoffman, Patricia'; 'Catherine.Jereza@HQ.DOE.GOV'; 'Batra, Rakesh'; 'Katherine.Konieczny@HQ.DOE.GOV'
Cc: 'Bryson, Mike E.'; 'Souder, David W.'; 'Tam, Simon K.'; 'Glazer, Craig'; 'O'Hara, Chris'; 'Robinson, Evelyn'; 'Pincus, Steven'; 'Burlew, James M.'; 'Mars, Jennifer A.'; 'casey.roberts@sierraclub.org'; 'sanjay.narayan@sierraclub.org'; Mike Barmer (PowerDelivery - 1T); Mohammed Alfayyumi (PowerDelivery - 1T) (mohammed.alfayyumi@dominionenergy.com)
Subject: DOE Order 202-18-3 Report

Confidential Contains CEII Material

Dear Secretary Perry:

PJM Interconnection, LLC and Virginia Electric and Power Company, dba Dominion Energy Virginia, respectfully submit the following in compliance with Order No. 202-18-3:

1. Report on Yorktown Units 1 and 2 Revised Construction Schedule;
2. Public version of Skiffes Creek outages table (CEII material redacted); and
3. Non-Public version of Skiffes Creek outages table (password protected contains CEII material).

Please contact me if you have any questions.

I will send the password for the CEII file by separate email to Dominion, PJM and DOE personnel only.

Thanks,

Michael C. Regulinski
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From: Michael Regulinski
To: Batra, Rakesh
Subject: RE: DOE Order 202-18-3 Report
Date: Friday, March 16, 2018 3:40:20 PM
Attachments: CEII Skiffes Creek outages table 031218.pdf

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From: Batra, Rakesh [mailto:Rakesh.Batra@Hq.Doe.Gov]
Sent: Friday, March 16, 2018 3:36 PM
To: Michael Regulinski (Services - 6); Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Konieczny, Katherine
Cc: Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Robinson, Evelyn; Pincus, Steven; 'Burlew, James M.'; 'Mars, Jennifer A.'; casey.roberts@sierraclub.org; sanjay.narayan@sierraclub.org; Mike Barmer (PowerDelivery - 1T); Mohammed Alfayyumi (PowerDelivery - 1T)
Subject: [External] RE: DOE Order 202-18-3 Report
 I am unable to extract the .zip attachment. Please resend as a password protected pdf.
 Thanks,
 Rakesh

From: Michael Regulinski [mailto:michael.regulinski@dominionenergy.com]
Sent: Friday, March 16, 2018 2:56 PM
To: Secretary Perry <The.Secretary@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Jereza, Catherine <Catherine.Jereza@Hq.Doe.Gov>; Batra, Rakesh <Rakesh.Batra@Hq.Doe.Gov>; Konieczny, Katherine <Katherine.Konieczny@Hq.Doe.Gov>
Cc: Bryson, Mike E. <Michael.Bryson@pjm.com>; Souder, David W. <David.Souder@pjm.com>; Tam, Simon K. <Simon.Tam@pjm.com>; Glazer, Craig <Craig.Glazer@pjm.com>; O'Hara, Chris <Chris.OHara@pjm.com>; Robinson, Evelyn <Evelyn.Robinson@pjm.com>; Pincus, Steven <Steven.Pincus@pjm.com>; 'Burlew, James M.' <James.Burlew@pjm.com>; 'Mars, Jennifer A.' <Jennifer.Mars@pjm.com>; casey.roberts@sierraclub.org; sanjay.narayan@sierraclub.org; Mike Barmer <mike.barmer@dominionenergy.com>; Mohammed Alfayyumi <mohammed.alfayyumi@dominionenergy.com>
Subject: DOE Order 202-18-3 Report

Confidential Contains CEII Material

Dear Secretary Perry:
 PJM Interconnection, LLC and Virginia Electric and Power Company, dba Dominion Energy Virginia, respectfully submit the following in compliance with Order No. 202-18-3:

1. Report on Yorktown Units 1 and 2 Revised Construction Schedule;
2. Public version of Skiffes Creek outages table (CEII material redacted); and
3. Non-Public version of Skiffes Creek outages table (password protected contains CEII

material).

Please contact me if you have any questions.

I will send the password for the CEII file by separate email to Dominion, PJM and DOE personnel only.

Thanks,

Michael C. Regulinski

Managing General Counsel

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NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (subject to change)

Outage	Outage Time Frame	Limiting Contingency	Load Threshold	Hours over Load Threshold**	Days over load threshold**	Dominion Emissions Estimates
(b) (3) (A)	7/9/17-9/29/17	(b) (3) (A)	>18,400 MW	87	18	NOx 243.06 SO2 933.11 PM10 52.62 CO2 122385.6 Pb 0.01 Hg 0.0015 HCl 22.01 HF 3.56 CO 11.88
(b) (3) (A)	9/29/17-10/27/17	(b) (3) (A)	>17,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	10/27/17-10/30/17	(b) (3) (A)	1 unit > 12,000 MW, 2 units > 14,000 MW	0 0	0 0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	10/30/17-3/22/18	(b) (3) (A)	>17,200 MW	20	6	NOx 81.02 SO2 311.04 PM10 17.54 CO2 40795.2 Pb 0.0033 Hg 0.0005 HCl 7.34 HF 1.19 CO 3.96

NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (subject to change)

(b) (3) (A)	3/25/18-6/15/18	(b) (3) (A)	>18,100 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	3/25/18-6/15/18	(b) (3) (A)	1 unit > 12,000 MW, 2 units > 14,000 MW	242	26	NOx 553.64 SO2 2125.42 PM10 119.85 CO2 278767.2 Pb 0.0227 Hg 0.0035 HCl 50.13 HF 8.12 CO 27.06
(b) (3) (A)	9/4/18-11/30/18	(b) (3) (A)	>13,000 MW	172	22	NOx 297.07 SO2 1140.47 PM10 64.31 CO2 149582.4 Pb 0.0122 Hg 0.0019 HCl 26.90 HF 4.36 CO 14.52
(b) (3) (A)	9/4/18-11/30/18	(b) (3) (A)	>18,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	12/01/18-12/31/18, 2/15/19-4/15/19	(b) (3) (A)	1 unit > 14,400 MW, 2 units > 16,400 MW	73	11	NOx 189.05 SO2 725.75 PM10 40.92 CO2 95188.8 Pb 0.0078 Hg 0.0012 HCl 17.12 HF 2.77 CO 9.24

NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (subject to change)

(b) (3) (A)	12/01/18-12/31/18, 2/15/19-4/15/19	(b) (3) (A)	>18,100 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	4/9/19-4/15/19	(b) (3) (A)	1 unit > 12,000 MW, 2 units > 14,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	4/9/19-4/15/19	(b) (3) (A)	>18,000 MW	0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	3/28/19-4/1/19	(b) (3) (A)		0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0
(b) (3) (A)	5/11/19-5/15/19	(b) (3) (A)		0	0	NOx 0.0 SO2 0.0 PM10 0.0 CO2 0.0 Pb 0.0 Hg 0.0 HCl 0.0 HF 0.0 CO 0.0

NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (subject to change)

(b) (3) (A)	6/16/18-9/3/18, 1/1/19-2/14/19	(b) (3) (A)	>18,400 MW	66	16	NOx 216.05 SO ₂ 829.43 PM ₁₀ 46.77 CO ₂ 108787.2 Pb 0.0089 Hg 0.0014 HCl 19.56 HF 3.17 CO 10.56
			Total Estimate	760	117	NOx 1579.89 SO ₂ 6065.22 PM ₁₀ 342.01 CO ₂ 795506.4 Pb 0.0649 Hg 0.0099 HCl 143.05 HF 23.17 CO 77.23

Planned transmission outages associated with Skiffes Creek transmission project that may require Yorktown 1 & 2 units to run scheduled to be completed on May 15, 2019. Skiffes Creek transmission project construction schedule is estimated to be complete by August 21, 2019.

** Estimates are for both Yorktown 1 & 2 units.

NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (subject to change)

	07-2017	08-2017	09-2017	10-2017	11-2017	12-2017	01-2018	02-2018	03-2018	04-2018	05-2018	06-2018	07-2018	08-2018	09-2018	10-2018	11-2018
Days over load threshold **	9	9	0	0	0	1	4	1	2	2	11	26	7	8	16	2	4
Hours over Load Threshold **	39	48					13	4	6	8	95	220	30	34	145	13	14
NOx	107.7	6.0	0.0	0.0	0.0	0.0	44.4	0.0	27.01	27.01	148.54	351.09	94.52	108.03	216.05	27.01	54.01
SO2	216.9	20.8	0.0	0.0	0.0	0.0	157.6	0.0	103.68	103.68	570.23	1347.83	362.88	414.72	829.43	103.68	207.36
PM10	12.83	14.9	0.0	0.003	0.0	0.0	10.97	0.0	5.85	5.85	32.15	76.00	20.46	23.39	46.77	5.85	11.69
CO2	35,417.5	2,744.1	0.0	5.5	0.0	0.0	19,702.3	0.0	13,598.4	13,598.4	74,791.2	76,779.2	7,594.4	4,393.6	108,787.2	13,598.4	27,196.8
Pb	0.0046	0.00028	0.0	0.0	0.0	0.0	0.000272	0.0	0.0011	0.0011	0.0061	0.0144	0.0039	0.0044	0.0089	0.0011	0.0022
Hg	0.000897	0.0000546	0.0	0.0	0.0	0.0	0.000318	0.0	0.0002	0.0002	0.0009	0.0022	0.0006	0.0007	0.0014	0.0002	0.0003
HCl	12.92	0.79	0.0	0.0	0.0	0.0	8.59	0.0	2.45	2.45	13.45	31.79	8.56	9.78	19.56	2.45	4.89
HF	1.67	0.10	0.0	0.0	0.0	0.0	0.57	0.0	0.40	0.40	2.18	5.15	1.39	1.58	3.17	0.40	0.79
CO	5.64	0.36	0.0	0.0	0.0	0.0	1.9	0.0	1.32	1.32	7.26	17.16	4.62	5.28	10.56	1.32	2.64

Figures highlighted in green are actual emission data for the month

NON-PUBLIC CONFIDENTIAL – CEII

Skiffes Creek Construction Transmission Outage Schedule and Yorktown Units 1 and 2 Emission Estimates as of March 12, 2018 (subject to change)

	12-2018	01-2019	02-2019	03-2019	04-2019	05-2019
Days over load threshold **	10	1	4	0	0	0
Hours over Load Threshold **	59	2	27	0	0	0
NOx	135.03	13.50	54.01	0.0	0.0	0.0
SO2	518.39	51.84	207.36	0.0	0.0	0.0
PM10	29.23	2.92	11.69	0.0	0.0	0.0
CO2	67,992.0	6,799.2	27,196.8	-	-	-
Pb	0.0055	0.0006	0.0022	0.0	0.0	0.0
Hg	0.0008	0.0001	0.0003	0.0	0.0	0.0
HCl	12.23	1.72	4.89	0.0	0.0	0.0
HF	1.98	0.20	0.79	0.0	0.0	0.0
CO (tons)	6.60	0.66	2.64	0.0	0.0	0.0

From: Michael Regulinski
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Robinson, Evelyn; Pincus, Steven; "Burlew, James M."; "Mars, Jennifer A."; casey.roberts@sierraclub.org; sanjay.narayan@sierraclub.org; Mike Barner; Mohammed Alfayyumi; "kfinto@hunton.com"
Subject: Yorktown Units Test Run Report: DOE Order 202-18-3
Date: Wednesday, April 25, 2018 3:43:43 PM
Attachments: DOE Report April Yorktown Run April 11 test run.pdf
Yorktown Bi-Weekly Hourly Emissions Data.pdf
YT12 Intake Circulating Water Usage.pdf

Dear Secretary Perry:

PJM Interconnection, LLC and Virginia Electric and Power Company, dba Dominion Energy Virginia, respectfully submit the following in compliance with Order No. 202-18-3:

1. Report on Yorktown Units 1 and 2 Test Run.

Please contact me if you have any questions.

Michael C. Regulinski

Managing General Counsel

Dominion Energy Services, Inc.

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P: (804) 819-2794

C: (b) (6)

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April 25, 2018

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-18-3

Dear Secretary Perry:

Pursuant to Order No. 202-18-3 (the "Order") issued March 13, 2018 by the Secretary of Energy ("Secretary"), PJM Interconnection, L.L.C. ("PJM") and Virginia Electric and Power Company ("Dominion Energy Virginia") respectfully submits the attached report regarding a test run of Yorktown Units 1 and 2 on April 11, 2018 in accordance with the Secretary's directive to "report all dates on which Yorktown Units 1 and 2 are operated as well as the estimated emissions and water usage data associated with their operations."¹

In the PJM application submitted June 13, 2017 (incorporated by reference in the PJM February 28 Renewal Application), PJM explained that emissions from the plant would occur at times outside of periods where PJM dispatches the Yorktown units for reliability.² These times include basic and periodic maintenance activities, and compliance related activities, undertaken to ensure the units remain reliable and capable of operating when necessary. These activities are consistent with normal operating procedures and good engineering practices, and include operating equipment for maintenance testing and reliability check out, testing of fuel systems, tuning of units, required emissions or operational testing, and

¹ Order at page 2. The Order is for the period March 14 to June 11, and directs the emission report to be submitted every two weeks. April 25 is the end of the third two week period.

² PJM Application at page 13, incorporated by reference in the February 28 PJM Renewal Application at page 1.

other operating procedures. Without performing these activities Dominion Energy Virginia may not be prepared to run the Yorktown Units when directed by PJM to ensure system reliability.

On April 11, for approximately 7 hours, Dominion Energy Virginia tested equipment on the Yorktown Units as part of an effort to ensure reliability of these two units when called upon by PJM to provide grid stability. This testing included running sub-systems and firing of ignitors and warm up burners to functionally test and verify operation for start-up. Dominion Energy Virginia did not fire the boiler for any extended period but just long enough to cycle through all the ignitors and warm up the burners. Dominion Energy Virginia tests each unit individually; the first run was the unit 1 reliability test and the second run was the unit 2 reliability test run. The two tests differed in duration due to troubleshooting of equipment issues for the start-up as well as working through some opacity issues that is commonplace when a boiler sits for a period of time and ash settles in the ductwork. The Yorktown generators did not generate any power transmitted to the grid during the test.

Dominion Energy Virginia plans for testing the units depends on whether PJM dispatches the units and they operate. If PJM dispatches the units and they run, Dominion Energy Virginia plans on conducting these tests 2-1/2 to 3 months after the last run.

Attachment 1 to this report is the Yorktown Power Station Bi-weekly Emissions Data for April 3 to April 16 that shows the actual runtime and air emissions data for the period in pounds per hour and total tons for NO_x, SO₂, CO₂, PM₁₀, lead, mercury, HCl, and HF. This spreadsheet includes hourly runtime data for the equipment for the Yorktown units, and raw and calculated data showing emissions data associated with operations of the equipment. Pounds per million Btu and pounds per trillion Btu calculations are not provided with this submittal as these values would not be meaningful for the limited hours of run time observed during this period.

NO_x and SO₂ emissions are based on valid hours of Continuous Emissions Monitoring System (CEMS) data for the period. PM-10 emissions are based on the emission factor derived from the July 21, 2017 stack test (0.0168 lbs/mmBtu corrected to 0.1143 lbs/mmBtu calculated for PM-10 filterable plus condensable). CO₂ emissions are based on valid CEMS hours for the operating period. All other

emissions were calculated using emission factors from AP-42, Fifth Edition, Volume 1, Chapter 1: External Combustion Sources and calculated hourly coal consumption in tons.³

Attachment 2 of this report is entitled "Yorktown Power Station April 11 Circulating Water Usage." This report provides the intake circulating water usage for the test of the Yorktown units.

PJM and Dominion Energy Virginia respectfully submits the information in this report be accepted by the Secretary as compliant with the Order's directives to report all dates on which Yorktown Units 1 and 2 are operated well as the estimated and actual emissions and water usage data associated with their operations.

Respectfully submitted,

/s/ Michael C. Regulinski
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³ Mercury and lead emissions were calculated using AP-42, Table 1.1-18. CO emissions were calculated using emission factors from AP-42, Table 1.1-3. Total HAP metals and individual HAP metals are not provided because MATS Table 2 (40 CFR 63, Subpart UUUUU) provides for compliance with either the PM limit or total non-mercury HAP metals limits or individual HAP metals. Dominion Energy Virginia is providing PM-10 emissions for the purposes of MATS. HCl and HF emissions were calculated using emission factors from AP-42, Table 1.1-15.

Dominion Energy – Yorktown Power Station
Bi-Weekly Mass Emissions
Apr 03, 2018 through Apr 16, 2018

Unit 1 Load			Unit 2 Load			Common Stack									
Date & Hour	(Gross MW)	(Gross MW)	Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (lbs)	HCl (Lbs)	HF (Lbs)		
04-03-2018 00	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 01	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 02	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 03	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 04	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 05	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 06	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 07	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 08	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 09	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 10	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 11	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 12	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 13	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 14	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 15	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 16	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 17	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 18	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 19	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 20	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 21	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 22	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-03-2018 23	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 00	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 01	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 02	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 03	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 04	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 05	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 06	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 07	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 08	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 09	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 10	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		
04-04-2018 11	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0		

Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions
Apr 03, 2018 through Apr 16, 2018

Substation Date	Unit 1 Load		Unit 2 Load		Common Stack													
	Date & Hour	(Gross MW)	(Gross MW)		Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (lbs)	SO2 (lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)			
	04-06-2018 00	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 12	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 13	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 14	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 15	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 16	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 17	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 18	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 19	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 20	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 21	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 22	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-06-2018 23	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 00	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0
	04-07-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0	0

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Date & Hour		Unit 1 Load		Unit 2 Load		Common Stack									
		Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (lbs)	SO2 (lbs)	CO2 (Tons)	Coal (Tons)	PM10 (lbs)	Lead (lbs)	Mercury (lbs)	HCl (lbs)	HF (lbs)			
04-07-2018	12	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	13	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	14	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	15	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	16	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	17	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	18	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	19	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	20	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	21	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	22	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-07-2018	23	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	00	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	01	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	02	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	03	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	04	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	05	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	06	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	07	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	08	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	09	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	10	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	11	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	12	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	13	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	14	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	15	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	16	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	17	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	18	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	19	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	20	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	21	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	22	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	
04-08-2018	23	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0	

Dominion Energy - Yorktown Power Station
 Bi-Weekly Mass Emissions
 Apr 03, 2018 through Apr 16, 2018

Substation Date	Unit 1 Load		Unit 2 Load		Common Stack									
	Date & Hour	(Gross MW)	(Gross MW)	Heat Input (mmBtu)	NOx (lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (lbs)	HCl (Lbs)	HF (Lbs)	
														Operation (x-xx Hour)
	04-09-2018 00	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 01	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 02	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 03	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 04	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 05	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 06	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 07	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 08	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 09	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 10	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 11	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 12	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 13	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 14	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 15	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 16	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 17	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 18	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 19	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 20	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 21	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 22	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-09-2018 23	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 00	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 01	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 02	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 03	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 04	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 05	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 06	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 07	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 08	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 09	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 10	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-10-2018 11	0	0	0.00	0.0	0.0	0.0	0.00	0	0	0	0	0	0

Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions

Apr 03, 2018 through Apr 16, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Common Stack										Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)
04-10-2018 12	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 13	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 14	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 15	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 16	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 17	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 18	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 19	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 20	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 21	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 22	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-10-2018 23	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 00	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 01	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 02	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 03	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 04	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 05	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 06	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 07	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 08	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 09	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 10	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 11	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 12	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 13	0	0	0.92	0.0	0.0	0.04	0.105156	2.6E-06	3.04E-06	0.043984	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0	0	0	0	
04-11-2018 14	0	0	1.00	38.4	3.9	1.53	4.38912	0.000109	0.000127	1.835857	1.53	1.53	1.53	0.0	0.0	0.0	0.0	0.0	0	0	0	0	
04-11-2018 15	0	0	1.00	1.0	0.0	0.04	0.1143	2.83E-06	3.31E-06	0.047809	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0	0	0	0	
04-11-2018 16	0	0	1.00	1.0	0.0	0.04	0.1143	2.83E-06	3.31E-06	0.047809	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0	0	0	0	
04-11-2018 17	0	0	1.00	1.0	0.0	0.04	0.1143	2.83E-06	3.31E-06	0.047809	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0	0	0	0	
04-11-2018 18	0	0	1.00	1.0	0.0	0.04	0.1143	2.83E-06	3.31E-06	0.047809	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0	0	0	0	
04-11-2018 19	0	0	0.90	0.8	0.0	0.04	0.10287	2.55E-06	2.98E-06	0.043028	0.04	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0	0	0	0	
04-11-2018 20	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 21	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 22	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	
04-11-2018 23	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0.00	0	0.00	0.0	0.0	0.0	0	0	0	0	0	0	

Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions

Apr 03, 2018 through Apr 16, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Common Stack										
			Operation (x-xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)
04-12-2018 00	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 01	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 02	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 03	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 04	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 05	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 06	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 07	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 08	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 09	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 10	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 11	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 12	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 13	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 14	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 15	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 16	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 17	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 18	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 19	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 20	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 21	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 22	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-12-2018 23	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 00	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 01	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 02	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 03	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 04	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 05	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 06	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 07	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 08	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 09	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 10	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-13-2018 11	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0

Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions
Apr 03, 2018 through Apr 16, 2018

SUBMITTER	Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Common Stack										Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)
	04-13-2018 12	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 13	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 14	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 15	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 16	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 17	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 18	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 19	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 20	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 21	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 22	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-13-2018 23	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 00	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 01	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 02	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 03	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 04	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 05	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 06	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 07	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 08	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 09	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 10	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 11	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 12	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 13	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 14	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 15	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 16	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 17	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 18	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 19	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 20	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 21	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 22	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	04-14-2018 23	0	0	0.00	0.0	0.0	0.0	0.00	0.00	0	0	0	0		0.0	0.0	0.0	0.0	0.00	0	0	0	0	0

Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions
Apr 03, 2018 through Apr 16, 2018

Substation Date	Unit 1 Load			Unit 2 Load			Common Stack												
	Date & Hour			(Gross MW)			(Gross MW)												
	Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (lbs)	SO2 (lbs)	CO2 (Tons)	Coal (Tons)	PM10 (lbs)	Lead (lbs)	Mercury (lbs)	HCl (lbs)	HF (lbs)								
	04-15-2018 00	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 01	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 02	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 03	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 04	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 05	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 06	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 07	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 08	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 09	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 10	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 11	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 12	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 13	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 14	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 15	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 16	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 17	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 18	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 19	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 20	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 21	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 22	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-15-2018 23	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 00	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 01	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 02	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 03	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 04	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 05	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 06	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 07	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 08	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 09	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 10	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			
	04-16-2018 11	0	0	0.00	0.0	0.0	0.00	0	0	0	0	0	0	0	0	0			

Dominion Energy - Yorktown Power Station
 Bi-Weekly Mass Emissions
 Apr 03, 2018 through Apr 16, 2018

Date & Hour	Unit 1 Load (Gross MW)	Unit 2 Load (Gross MW)	Common Stack										
			Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)
04-16-2018 12	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 13	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 14	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 15	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 16	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 17	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 18	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 19	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 20	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 21	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 22	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
04-16-2018 23	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
Bi-Weekly Total Tons			44.2	0.5	0.0	3.9	1.76	0.002527	6.26E-08	7.31E-08	0.001057	0.000132	

Note:

All data are collected and processed in accordance with Part 75.

Data with orange fill are substituted in accordance with Part 75.

Monthly sums may not agree with data published by EPA due to the handling of quarterly and annual totals.

Yorktown Power Station April 11 2018 Circulating Water Usage

Unit	Cooling Water On-Line	Cooling Water Off-Line	Days On-Line	Total Cooling Water Days	Total Water Amount (Mgal)
1	4/11/18 13:53	4/11/18 20:56	0.29	0.29	47

Unit	Cooling Water On-Line	Cooling Water Off-Line	Days On-Line	Total Cooling Water Days	Total Water Amount (Mgal)
2	4/11/18 8:46	4/11/18 20:23	0.48	0.48	69

Total million gallons through Unit 1 & 2

116

From: Michael Regulinski
To: Secretary Perry; Hoffman, Patricia; Jereza, Catherine; Batra, Rakesh; Konieczny, Katherine
Cc: Bryson, Mike E.; Souder, David W.; Tam, Simon K.; Glazer, Craig; O'Hara, Chris; Robinson, Evelyn; Pincus, Steven; "Burlew, James M."; "Mars, Jennifer A."; casey.roberts@sierraclub.org; saniay.narayan@sierraclub.org; Mike Barner; Mohammed Alfayyoumi
Subject: Yorktown Units Operations Report; Order No. 202-18-3
Date: Wednesday, May 09, 2018 4:06:48 PM
Attachments: DOE Report May 2-5 emission data.pdf
Copy of Yorktown Bi-Weekly Hourly Emissions Data 20180423-20180506 (Attachment 1).xlsx
YT12 Intake Circulating Water Usage May 2 5 18.xlsx

Dear Secretary Perry:

PJM Interconnection, LLC and Virginia Electric and Power Company, dba Dominion Energy Virginia, respectfully submit the following in compliance with Order No. 202-18-3: DOE Report Yorktown Units 1 and 2 Operations.

Please contact me if you have any questions.

Michael C. Regulinski
Managing General Counsel

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May 9, 2018

The Honorable James Richard Perry
Secretary of the Energy
United States Department of Energy
1000 Independence Ave, SW
Washington, DC 20585

Re: Report on Yorktown Units 1 and 2 Operations Pursuant to Order No. 202-18-3

Dear Secretary Perry:

Pursuant to Order No. 202-18-3 issued on March 13, 2018 (the "Order") by the Secretary of Energy ("Secretary"), PJM Interconnection, L.L.C. ("PJM") and Virginia Electric and Power Company ("Dominion Energy Virginia") respectfully submit the attached air emissions report regarding PJM's dispatch of Yorktown Units 1 and 2 from May 2 through May 5, 2018, including the periods needed to startup and ramp down the units. This report is submitted in accordance with the Secretary's directive that every two weeks PJM and Dominion are to "report all dates between March 13, 2018 and June 11, 2018, on which Yorktown Units 1 and/or 2 are operated, and the associated air emissions and water usage data for those dates."¹

In the Order, the Secretary determined "that an emergency continues to exist in the North Hampton Roads area of Virginia due to a shortage of electric energy and a shortage of facilities for the generation of electric energy." The Secretary found that the issuance of this Order will meet the emergency and serve the public interest as required by Federal Power Act Section 202(c)"² In doing so, the Secretary directed Dominion Energy Virginia to operate Yorktown Units 1 and/or 2 as directed by PJM only as needed to ensure grid reliability for a 90-day period March 13, 2018 through June 11, 2018."³

On May 1 at approximately 08 hundred hours, PJM directed Dominion Energy Virginia to have Yorktown Unit 2 available the next day, and Dominion Energy Virginia began the startup process and the unit was on line and generating power on May 2 at 18 hundred hours. On May 2 at approximately 05

¹ Order at page 2.

² Order at page 1.

³ Order at page 2.

hundred hours, PJM directed Dominion Energy Virginia to have Yorktown Unit 1 available the next day, and Dominion Energy Virginia began the startup process and Unit 1 was on line and generating power on May 3 at 15 hundred hours. PJM dispatched both units off line at approximately 00 hundred hours on May 5, and Dominion Energy Virginia took the units offline at about 02 hundred hours on May 5.

Attachment 1 to this report is the Yorktown Power Station Bi-Weekly Mass Emissions for April 23 through May 6 that shows the actual runtime and air emissions data. This spreadsheet includes hourly runtime data for Yorktown Unit 2, hourly gross Megawatt (MW) outputs, and raw and calculated data showing air emissions data associated with operations of Yorktown Unit 2.⁴

The information in Attachment 1 reports Yorktown Unit 2 hourly emissions of PM-10 and SO₂ in pounds per hour and pounds per million BTU, and mercury in pounds per hour and pounds per trillion BTU (Mercury and Air Toxics Standards (MATS) format) for the operating period beginning December 6, 2017 through January 8, 2018. Additionally, Attachment 1 provides Unit 2 hourly emissions of NO_x in pounds per hour, greenhouse gases (as CO₂) in tons per hour, lead in pounds per hour, HCl in pounds per hour, HF in pounds per hour, and CO in pounds per hour. NO_x and SO₂ emissions are based on valid hours of Continuous Emissions Monitoring System (CEMS) data for the period. PM-10 emissions are based on the emission factor derived from the July 21, 2017 stack test (0.0168 lbs/mmBtu corrected to 0.1143 lbs/mmBtu calculated for PM-10 filterable plus condensable). CO₂ emissions are based on valid CEMS hours for the operating period. All other emissions were calculated using emission factors from AP-42, Fifth Edition, Volume 1, Chapter 1: External Combustion Sources and calculated hourly coal consumption in tons.⁵

⁴ The Yorktown units can emit pollution while not generating MWs (*e.g.* during standby, startup and shutdown sequences). Thus, Attachment 1 shows the MW output during the period Yorktown Units 1 and 2 provided power to the grid including startup and shutdown processes and it shows the emissions data for operations of the Units including times when the unit was not generating power.

⁵ Mercury and lead emissions were calculated using AP-42, Table 1.1-18. CO emissions were calculated using emission factors from AP-42, Table 1.1-3. Total HAP metals and individual HAP metals are not provided because MATS Table 2 (40 CFR 63, Subpart UUUUU) provides for compliance with either the PM limit or total non-mercury HAP metals limits or individual HAP metals. Dominion Energy Virginia is providing PM-10 emissions for the purposes of MATS. HCl and HF emissions were calculated using emission factors from AP-42, Table 1.1-15.

Attachment 2 to this report is the Yorktown May 2-5 Circulating Water Usage report for the Yorktown Units 1 and 2 operations required by the Order. Operation of cooling water pumps extends over a period of time longer than unit operation to facilitate cooling of plant components that support the boiler and turbine. As a general rule cooling water will continue to be pumped until the turbine metal temperature is less than 300 °F. However, sometimes additional cooling water is necessary to complete proper cool down of auxiliary equipment and lubrication fluids after the turbine metal reaches 300 °F, as was the case with the Yorktown Units 1 and 2 operations in May. As shown in Attachment 2, water continued to be circulated through Unit 1 until approximately 21 hundred hours on May 6, and until approximately 15 hundred hours on May 8 for Unit 2.

PJM and Dominion Energy Virginia respectfully submits the information in this report be accepted by the Secretary as compliant with the Order's directives to report all dates on which Yorktown Units 1 and/or 2 are operated between March 13 and June 11, 2018 as well as the associated air emissions and water usage associated with their operations.

Respectfully submitted,

/s/Michael C. Regulinski

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cc: Pat Hoffman, U.S. Department of Energy
Catherine Jereza, U.S. Department of Energy
Rakesh Batra, U.S. Department of Energy
Casey Roberts, Sierra Club Environmental Law Program

Attachment 1 Dominion Energy - Yorktown Power Station
BI-Weekly Mass Emissions

Apr 23, 2018 through May 06, 2018

Submitted Date	Unit 1 Load		Common Stack										Unit 2 Load	
	Date & Hour	(Gross MW)	Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (lbs)	HCl (Lbs)	HF (Lbs)	
	04-23-2018 00	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 01	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 02	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 03	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 04	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 05	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 06	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 07	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 08	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 09	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 10	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 11	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 12	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 13	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 14	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 15	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 16	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 17	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 18	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 19	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 20	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 21	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 22	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-23-2018 23	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 00	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 01	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 02	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 03	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 04	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 05	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 06	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 07	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 08	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 09	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 10	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0
	04-24-2018 11	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0

Attachment 1 Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions

Apr 23, 2018 through May 06, 2018

Substituted Data	Unit 1 Load		Unit 2 Load		Common Stack													
	Date & Hour	(Gross MW)	(Gross MW)	Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)				
	04-24-2018 12	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 13	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 14	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 15	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 16	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 17	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 18	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 19	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 20	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 21	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 22	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-24-2018 23	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 00	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 01	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 02	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 03	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 04	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 05	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 06	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 07	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 08	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 09	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 10	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 11	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 12	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 13	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 14	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 15	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 16	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 17	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 18	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 19	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 20	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 21	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 22	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			
	04-25-2018 23	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0			

Attachment 1 Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions

Apr 23, 2018 through May 06, 2018

Substation Date	Unit 1 Load		Unit 2 Load		Common Stack													
	Date & Hour	(Gross MW)	(Gross MW)		Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (lbs)	SO2 (lbs)	CO2 (Tons)	Coal (Tons)	PM10 (lbs)	Lead (lbs)	Mercury (lbs)	HCl (lbs)	HF (lbs)			
	04-26-2018 00	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 12	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 13	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 14	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 15	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 16	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 17	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 18	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 19	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 20	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 21	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 22	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-26-2018 23	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 00	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
	04-27-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0

Substituted Data

Substituted Data

Attachment 1 Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions
Apr 23, 2018 through May 06, 2018

Substation Date	Unit 1 Load		Unit 2 Load		Common Stack													
	Date & Hour	(Gross MW)	(Gross MW)	(Gross MW)	Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)			
	04-29-2018 00	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 12	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 13	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 14	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 15	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 16	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 17	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 18	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 19	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 20	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 21	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 22	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-29-2018 23	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 00	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0
	04-30-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0	0	0

Apr 23, 2018 through May 06, 2018

Substituted Data

Attachment 1 Dominion Energy - Yorktown Power Station

BI-Weekly Mass Emissions

Apr 23, 2018 through May 06, 2018

Submitted Date	Unit 1 Load		Unit 2 Load		Common Stack													
	Date & Hour	(Gross MW)	(Gross MW)	Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)				
TRUE	05-02-2018 00	0	0	1.00	224.5	9.2	4.8	23.0	8.94	25.66035	0.000635	0.000742	10.73307	1.341633				
	05-02-2018 01	0	0	1.00	173.1	7.6	4.3	17.8	6.90	19.78533	0.00049	0.000572	8.275697	1.034462				
TRUE	05-02-2018 02	0	0	1.00	186.6	13.2	6.2	19.1	7.43	21.32838	0.000528	0.000617	8.921116	1.115139				
	05-02-2018 03	0	0	1.00	191.2	13.6	6.3	19.6	7.62	21.85416	0.000541	0.000632	9.141036	1.142629				
TRUE	05-02-2018 04	0	0	1.00	182.1	7.5	7.7	18.7	7.25	20.81403	0.000515	0.000602	8.705976	1.088247				
	05-02-2018 05	0	0	1.00	107.0	7.6	8.0	13.0	4.26	12.2301	0.000303	0.000354	5.115538	0.639442				
TRUE	05-02-2018 06	0	0	1.00	107.2	7.6	1.9	11.0	4.27	12.25296	0.000303	0.000354	5.1251	0.640637				
	05-02-2018 07	0	0	1.00	108.4	7.2	1.0	11.1	4.32	12.39012	0.000307	0.000358	5.18247	0.647809				
TRUE	05-02-2018 08	0	0	1.00	32.1	0.4	1.6	3.3	1.28	3.66903	9.08E-05	0.000106	1.534661	0.191833				
	05-02-2018 09	0	0	1.00	63.6	1.1	3.2	6.5	2.53	7.26948	0.00018	0.00021	3.040637	0.38008				
TRUE	05-02-2018 10	0	0	1.00	63.4	1.1	3.5	6.5	2.53	7.24662	0.000179	0.00021	3.031076	0.378884				
	05-02-2018 11	0	0	1.00	84.8	2.4	5.4	8.7	3.38	9.69264	0.00024	0.00028	4.054183	0.506773				
TRUE	05-02-2018 12	0	0	1.00	105.8	3.5	6.0	10.9	4.22	12.09294	0.000299	0.00035	5.058167	0.632271				
	05-02-2018 13	0	0	1.00	123.6	4.7	7.1	12.7	4.92	14.12748	0.00035	0.000409	5.909163	0.738645				
TRUE	05-02-2018 14	0	0	1.00	115.1	3.7	6.9	11.8	4.59	13.15593	0.000326	0.000381	5.502789	0.687849				
	05-02-2018 15	0	0	1.00	131.5	2.5	6.5	13.5	5.24	15.03045	0.000372	0.000435	6.286853	0.785857				
TRUE	05-02-2018 16	0	0	1.00	106.9	2.1	5.9	11.0	4.26	12.21867	0.000303	0.000353	5.110757	0.638845				
	05-02-2018 17	0	0	1.00	124.8	2.6	6.4	12.8	4.97	14.26464	0.000353	0.000413	5.966534	0.745817				
TRUE	05-02-2018 18	0	0	1.00	249.6	37.9	191.2	25.6	9.94	28.52928	0.000706	0.000825	11.93307	1.491633				
	05-02-2018 19	0	0	1.00	621.6	123.7	799.7	63.8	24.76	71.04888	0.001759	0.002055	29.71793	3.714741				
TRUE	05-02-2018 20	0	0	1.00	878.0	220.4	1272.7	90.1	34.98	100.3554	0.002485	0.002903	41.9761	5.247012				
	05-02-2018 21	0	0	1.00	916.0	238.2	1417.9	94.0	36.49	104.6988	0.002592	0.003029	43.79283	5.474104				
TRUE	05-02-2018 22	0	0	1.00	1151.7	482.6	1975.4	118.2	45.88	131.6393	0.003259	0.003808	55.06135	6.882669				
	05-02-2018 23	0	0	1.00	1276.2	562.8	2189.3	130.9	50.84	145.8697	0.003612	0.00422	61.01355	7.626693				
TRUE	05-03-2018 00	0	0	1.00	1269.3	548.3	2212.4	130.2	50.57	145.081	0.003592	0.004197	60.68367	7.585458				
	05-03-2018 01	0	0	1.00	1292.7	521.0	2408.0	132.6	51.50	147.7556	0.003658	0.004275	61.80239	7.725299				
TRUE	05-03-2018 02	0	0	1.00	1231.3	517.1	2258.8	126.3	49.06	140.7376	0.003485	0.004072	58.86693	7.358367				
	05-03-2018 03	0	0	1.00	1267.7	556.5	2209.8	130.1	50.51	144.8981	0.003588	0.004192	60.60717	7.575896				
TRUE	05-03-2018 04	0	0	1.00	1207.6	537.4	2229.0	123.9	48.11	138.0287	0.003418	0.003993	57.73386	7.216733				
	05-03-2018 05	0	0	1.00	1278.3	571.4	2188.4	131.2	50.93	146.1097	0.003618	0.004227	61.11394	7.639243				
TRUE	05-03-2018 06	0	0	1.00	1284.1	575.3	2184.1	131.8	51.16	146.7726	0.003634	0.004246	61.39124	7.673904				
	05-03-2018 07	0	0	1.00	1279.8	578.5	2164.7	131.3	50.99	146.2811	0.003622	0.004232	61.18566	7.648207				
TRUE	05-03-2018 08	0	0	1.00	1268.7	572.2	2130.3	130.2	50.55	145.0124	0.00359	0.004195	60.65498	7.581873				
	05-03-2018 09	0	0	1.00	1263.4	539.3	2088.1	129.6	50.33	144.4066	0.003575	0.004178	60.40159	7.550199				
TRUE	05-03-2018 10	0	0	1.00	1265.1	574.4	2098.7	129.8	50.40	144.6009	0.00358	0.004183	60.48287	7.560359				
	05-03-2018 11	0	0	1.00	1317.6	596.9	2140.7	135.2	52.49	150.6017	0.003729	0.004357	62.99283	7.874104				

Attachment 1 Dominion Energy - Yorktown Power Station

Bi-Weekly Mass Emissions

Apr 23, 2018 through May 06, 2018

Substation Date	Unit 1 Load		Unit 2 Load		Common Stack												
	Date & Hour	(Gross MW)	(Gross MW)	(Gross MW)	Operation (x-xx Hour)	Heat Input (mmBtu)	NOx (lbs)	SO2 (lbs)	CO2 (Tons)	Coal (Tons)	PM10 (lbs)	Lead (lbs)	Mercury (lbs)	HCl (lbs)	HF (lbs)		
TRUE	05-03-2018 12	0	145		1.00	1343.4	604.5	2142.2	137.8	53.52	153.5506	0.003802	0.004442	64.22629	8.028287		
	05-03-2018 13	0	145		1.00	1363.2	628.4	2201.8	139.9	54.31	155.8138	0.003858	0.004508	65.17291	8.146614		
	05-03-2018 14	0	145		1.00	1436.3	725.6	2246.3	147.4	57.24	164.2262	0.004066	0.004751	68.69163	8.586454		
	05-03-2018 15	11	145		1.00	1477.5	784.6	2279.7	151.6	58.86	168.8783	0.004181	0.004886	70.63745	8.829681		
	05-03-2018 16	53	145		1.00	1830.4	836.5	2988.3	187.8	72.92	209.2147	0.00518	0.006053	87.50916	10.93865		
	05-03-2018 17	80	145		1.00	2136.0	862.9	3581.4	219.2	85.10	244.1448	0.006045	0.007063	102.1195	12.76494		
	05-03-2018 18	95	145		1.00	2244.0	1000.8	3823.5	230.2	89.40	256.4892	0.006351	0.00742	107.2829	13.41036		
	05-03-2018 19	100	145		1.00	2292.1	1061.2	3923.0	235.2	91.32	261.987	0.006487	0.007579	109.5825	13.69781		
	05-03-2018 20	100	145		1.00	2297.3	1084.3	3931.8	235.7	91.53	262.5814	0.006501	0.007597	109.8311	13.72888		
	05-03-2018 21	100	145		1.00	2277.4	1079.5	3928.7	233.7	90.73	260.3068	0.006445	0.007531	108.8797	13.60996		
	05-03-2018 22	100	145		1.00	2303.2	1057.2	3971.0	236.3	91.76	263.2558	0.006518	0.007616	110.1131	13.76414		
	05-03-2018 23	100	145		1.00	2305.3	1051.2	3994.4	236.5	91.84	263.4958	0.006524	0.007623	110.2135	13.77669		
	05-04-2018 00	100	145		1.00	2343.8	1111.0	4180.4	240.5	93.38	267.8963	0.006633	0.00775	112.0542	14.00677		
	05-04-2018 01	109	146		1.00	2447.1	1103.6	4440.9	251.1	97.49	279.7035	0.006925	0.008092	116.9928	14.6241		
	05-04-2018 02	115	136		1.00	2401.1	1092.5	4354.2	246.3	95.66	274.4457	0.006795	0.00794	114.7936	14.3492		
	05-04-2018 03	116	46		1.00	1691.5	850.8	2838.3	173.5	67.39	193.3385	0.004787	0.005593	80.86853	10.10857		
	05-04-2018 04	116	28		1.00	1521.2	774.3	2479.2	156.1	60.61	173.8732	0.004305	0.00503	72.72669	9.090837		
	05-04-2018 05	119	39		1.00	1645.7	796.5	2578.0	168.9	65.57	188.1035	0.004657	0.005442	78.67888	9.834861		
	05-04-2018 06	119	123		1.00	2304.4	990.9	3757.5	236.4	91.81	263.3929	0.006521	0.00762	110.1705	13.77131		
	05-04-2018 07	120	145		1.00	2474.6	1138.3	4003.9	253.9	98.59	282.8468	0.007003	0.008183	118.3076	14.78845		
	05-04-2018 08	120	146		1.00	2472.3	1181.8	4179.3	253.7	98.50	282.5839	0.006997	0.008175	118.1976	14.7747		
	05-04-2018 09	121	147		1.00	2516.9	1122.5	4375.7	258.2	100.27	287.6817	0.007123	0.008323	120.3299	15.04124		
	05-04-2018 10	121	147		1.00	2517.2	1132.7	4383.5	258.3	100.29	287.716	0.007124	0.008324	120.3442	15.04303		
	05-04-2018 11	121	146		1.00	2519.6	1151.5	4437.3	258.5	100.38	287.9903	0.00713	0.008332	120.459	15.05737		
	05-04-2018 12	121	146		1.00	2509.7	1149.4	4452.7	257.5	99.99	286.8587	0.007102	0.008299	119.9857	14.99821		
	05-04-2018 13	121	146		1.00	2508.4	1148.8	4476.1	257.4	99.94	286.7101	0.007099	0.008295	119.9235	14.99044		
	05-04-2018 14	121	146		1.00	2504.1	1146.9	4459.2	256.9	99.76	286.2186	0.007087	0.00828	119.7179	14.96474		
	05-04-2018 15	121	146		1.00	2503.7	1151.7	4471.4	256.9	99.75	286.1729	0.007085	0.008279	119.6988	14.96235		
	05-04-2018 16	121	146		1.00	2499.8	1144.9	4484.4	256.5	99.59	285.7271	0.007074	0.008266	119.5124	14.93904		
	05-04-2018 17	121	146		1.00	2505.4	1160.0	4497.2	257.1	99.82	286.3672	0.00709	0.008285	119.7801	14.97251		
	05-04-2018 18	121	146		1.00	2507.6	1148.5	4470.0	257.3	99.90	286.6187	0.007097	0.008292	119.8853	14.98566		
	05-04-2018 19	121	146		1.00	2510.4	1147.3	4462.2	257.6	100.02	286.9387	0.007104	0.008301	120.0191	15.00239		
	05-04-2018 20	121	146		1.00	2517.4	1158.0	4450.8	258.3	100.29	287.7388	0.007124	0.008324	120.3538	15.04422		
	05-04-2018 21	121	146		1.00	2520.2	1161.8	4425.5	258.6	100.41	288.0589	0.007132	0.008334	120.4876	15.06096		
	05-04-2018 22	121	145		1.00	2520.3	1159.3	4397.2	258.6	100.41	288.0703	0.007132	0.008334	120.4924	15.06155		
	05-04-2018 23	80	81		1.00	1554.1	676.0	2464.1	159.5	61.92	177.6336	0.004398	0.005139	74.2996	9.28745		

Attachment 1 Dominion Energy - Yorktown Power Station

Bi-Weekly Mass Emissions

Apr 23, 2018 through May 06, 2018

Substituted Data	Unit 1 Load		Unit 2 Load		Common Stack										
	Date & Hour	(Gross MW)	(Gross MW)		Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)
	05-05-2018 00	4	0	0	0.22	96.8	21.2	109.1	9.9	3.86	11.06927	0.000274	0.00032	4.629992	0.578749
	05-05-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 12	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 13	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 14	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 15	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 16	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 17	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 18	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 19	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 20	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 21	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 22	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-05-2018 23	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 00	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 01	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 02	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 03	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 04	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 05	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 06	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 07	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 08	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 09	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 10	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 11	0	0	0	0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0

Attachment 1 Dominion Energy - Yorktown Power Station
Bi-Weekly Mass Emissions
Apr 23, 2018 through May 06, 2018

Substituted Data	Unit 1 Load		Unit 2 Load		Common Stack										
	Date & Hour	(Gross MW)	(Gross MW)		Operation (x.xx Hour)	Heat Input (mmBtu)	NOx (Lbs)	SO2 (Lbs)	CO2 (Tons)	Coal (Tons)	PM10 (Lbs)	Lead (Lbs)	Mercury (Lbs)	HCl (Lbs)	HF (Lbs)
	05-06-2018 12	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 13	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 14	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 15	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 16	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 17	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 18	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 19	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 20	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 21	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 22	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	05-06-2018 23	0	0		0.00	0.0	0.0	0.0	0.0	0.00	0	0	0	0	0
	Bi-Weekly Total Tons					102332.3 mmBtu	22.6	85.5	10499.7	4077.0	5.8	0.00014	0.00017	2.4	0.3

Note:

All data are collected and processed in accordance with Part 75.

Data with orange fill are substituted in accordance with Part 75.

Monthly sums may not agree with data published by EPA due to the handling of quarterly and annual totals.

Attachment 2 Yorktown Power Station May 2-5 2018 Circulating Wa

<i>Unit</i>	<i>On-Line</i>	<i>Off-Line</i>	<i>Days On-Line</i>	<i>Start-up Colling Water Pumps</i>	<i>Turbine Metal Temp < 300 deg</i>
1	5/3/18 15:48	5/5/18 1:13	1.39	5/2/18 12:13	5/6/18 21:18

Million gallons of Intake Circulating Water th

<i>Unit</i>	<i>On-Line</i>	<i>Off-Line</i>	<i>Days On-Line</i>	<i>Start-up Cooling Water Pumps</i>	<i>Turbine Metal Temp < 300 deg</i>
2	5/2/18 19:01	5/5/18 1:13	2.26	5/1/18 14:40	5/8/18 15:28

Million gallons of Intake Circulating Water th

Total million gallons through Unit 1

ter Usage

<i>Total Cooling Water Days</i>	<i>Total Water Amount (Mgal)</i>
4.38	555
rough Unit 1	555

<i>Total Cooling Water Days</i>	<i>Total Water Amount (Mgal)</i>
7.03	843
rough Unit 2	843

& 2	1,398
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